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GRADUATE COURSES

1896-7

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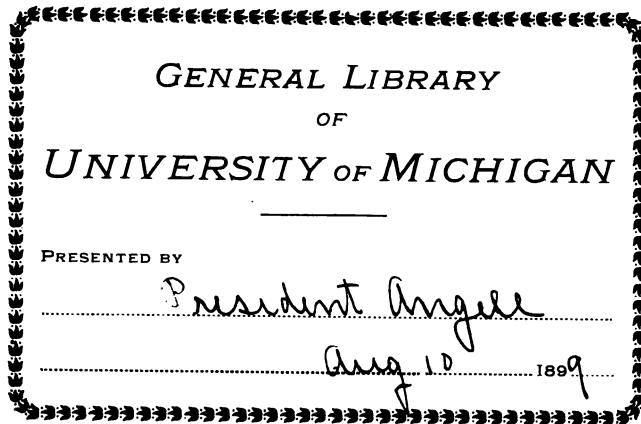
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GRADUATE COURSES

A Handbook for Graduate Students

ANNOUNCEMENTS OF ADVANCED COURSES OF INSTRUCTION OFFERED BY
TWENTY-FOUR COLLEGES AND UNIVERSITIES OF THE UNITED
STATES, WITH VALUABLE ADDITIONAL INFORMATION. FOR THE YEAR

1896-7

PUBLICATION AUTHORIZED BY THE FEDERATION OF GRADUATE CLUBS

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1896

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EDITOR'S PREFACE.

The Handbook of Graduate Courses is now issued for the fourth successive year. The favorable reception of former editions has proven that the Handbook is a convenient and useful source of information for advanced students. They find it saves money, time, and trouble to be able to get a compact and accurate compilation of courses to be offered for the ensuing year in the leading colleges and universities. In addition to that feature, the Handbook presents a great deal of biographical, statistical, and explanatory matter relative to the special facilities of the several institutions; to the professors offering courses; to the proportion of time given to each course; to the requirements for admission to advanced standing and for eligibility for higher degrees; to the fees exacted of Graduate Students; to the Fellowships, Scholarships, and other pecuniary aids open to them; to the numbers of Graduate Students now studying in each of the several departments of instruction, etc.¹

As an exhibit of the state of graduate study in America, it is hoped that the Handbook is not without value to all officers of administration and instruction—in fact, to all persons interested in the development of higher education.

As the authorized publication of "The Federation of Grad-

¹ The Handbook aims to give simply the essential facts, and is not an attempt to supplant the very full detailed statements issued by the several colleges and universities. The reader who desires to learn details as to any particular institution is referred to those announcements, which are freely sent to all applicants. The introductory sketches in the following pages give names and addresses of officers to whom to apply for detailed publications.

uate Clubs," the Handbook has attained a definite status, to be used in furthering the purpose of the Federation as stated in its Constitution; that is, "to aid the development of graduate study in America."

The number of institutions whose courses are included in the present edition is twenty-four — an increase of three over last year. The Committee on Publication is disposed to maintain a conservative attitude as to the admission of additional institutions, requiring evidence of graduate instruction of a high standard and in considerable amount.

The one great improvement which the Editors have succeeded in making this year is in the matter of promptness. It is a source of congratulation that the present edition, as compared with the 1895 issue, is out two months earlier in the year. Future editors should strive to get the Handbook into the hands of readers before June 1st.

The thanks of the Editor are due to many persons for courteous attention to exacting inquiries, but especially to the Board of Assistant Editors for their severe and unrequited labors, and for their helpful spirit of coöperation.

It is too much to hope that such a complicated and technical compilation, especially when prepared with all possible haste, should be free from errors and omissions. Criticisms and suggestions are therefore invited.

CAMBRIDGE, May 29th.

The Federation of Graduate Clubs.

ORGANIZATION PERFECTED BY THE CON-
VENTION OF GRADUATE STUDENTS,
JANUARY 3D, 1896.

THE OFFICERS OF THE GRADUATE CLUBS.

The Convention of Graduate Students held in New York City on April 16th, 1895, adopted resolutions favoring the assembling of a similar Convention during the following academic year. Acting upon this authorization, a call for a Convention, to meet in Philadelphia on January 3d, 1896, was issued by the Editor-in-Chief of the Handbook of Graduate Courses. By invitation of the Graduate Club of the University of Pennsylvania, which took charge of all local arrangements, the sessions of the Convention were held in their rooms in Houston Hall. The roll of the Convention showed an attendance of twenty-eight regularly accredited delegates representing the following nineteen colleges and universities: Barnard, Brown, Bryn Mawr, Chicago, Clark, Columbia, Columbian, Cornell, Harvard, Johns Hopkins, Michigan, Minnesota, New York, Pennsylvania, Princeton, Radcliffe, Western Reserve, Wisconsin, Yale.¹

¹ California, Leland Stanford, and Vanderbilt, although coöperating for the purposes of the Convention, were not represented by delegates.

The most important business of the Convention was the formation of "The Federation of Graduate Clubs." Discussion brought out a unanimous expression of opinion that the time had come for some form of union of the many clubs of Graduate Students in America. A committee considered and reported a Constitution, which was adopted by the Convention. The object of "The Federation of Graduate Clubs" is stated to be "to aid the development of graduate study in America." Any organized club of Graduate Students is eligible to membership in the Federation, and may be admitted on the recommendation of the Executive Committee and by the vote of the annual Convention.

Under this Constitution the "Handbook of Graduate Courses" was adopted as the authorized publication of the Federation. The "Committee on Publication" consists of an Editor-in-Chief (elected at the annual Convention) and an Associate Editor from the Graduate Club of each institution represented in the Handbook. The Committee is given full control of the Handbook, including the determination of questions of the admission of additional institutions.

The condition of Graduate Study in America was considered by the Convention on the basis of the 1895 "Address to Governing Boards of American Universities," and with particular reference to the subjects of migration and of standards for degrees. Reports of communications from many colleges in answer to the last "Address" showed that the action of the Convention had been received with general favor and had helped to secure desired reforms in not a few instances. After extended discussions, a Committee on Migration of Graduate Students and a Committee on Honorary Degrees were appointed to conduct thorough investigations during the ensuing year, with instructions to submit detailed reports of facts and recommendations to the next Convention of the Federation.

The meeting of the Federation for the year 1896-7 will be

arranged for by its Executive Committee, consisting of the following officers:—

<i>Pres.</i>	Mr. F. L. LUQUEER, Columbia.
<i>1st V. Pres.</i> . . .	Mr. E. A. SCHNABEL, Pennsylvania.
<i>2d V. Pres.</i> . . .	Mr. J. F. BROWN, Cornell.
<i>3d V. Pres.</i> . . .	Miss K. O. PETERSEN, Radcliffe.
<i>Rec. Sec.</i>	Mr. B. H. MEYER, Wisconsin.
<i>Cor. Sec.</i>	Miss B. H. PUTNAM, Barnard.
<i>Treas.</i>	Mr. E. P. SHELDON, Minnesota.

THE OFFICERS OF THE GRADUATE CLUBS.

Most striking evidence of the development of Graduate instruction in America is furnished by the growth of clubs or associations of Graduate Students in the various colleges and universities. These organizations, starting with the Harvard Graduate Club in 1889, now number twenty-two, besides others known to be in process of formation. The following is a complete list of their chief officers, as far as reported, to May 1st, 1896.

The Barnard Graduate Club.

Organized in 1895.

<i>Pres.</i> , LOUISE S. BROWNELL.	<i>Sec.</i> , ALICE STERNE.
<i>V. Pres.</i> , BERTHA H. PUTNAM.	<i>Treas.</i> , ELLA F. BRYSON.

The Association of Graduate Students of Brown University.

Organized in 1890.

<i>Pres.</i> , R. W. TOWER, Brown.	<i>Rec. Sec.</i> , MARTHA TARBELL, De Pauw.
<i>V. Pres.</i> , M. M. FOGG, Brown.	<i>Cor. Sec.</i> , A. C. ELY, Brown.
<i>Treas.</i> , F. S. CLAPP.	

The Bryn Mawr Graduate Club.

Organized in 1893-4.

<i>Pres.</i> , ELEANOR LOUISA LORD, Smith.	<i>Sec.</i> , MARY M. PETTY, Wellesley.
<i>V. Pres.</i> , DOROTHY W. LYON, Wells.	<i>Treas.</i> , EMILIE N. MARTIN, Bryn Mawr.

THE FEDERATION OF GRADUATE CLUBS.

The Graduate Club of the University of California.

Organized in September, 1895.

Pres., E. LYMAN HOOD, Yale.

V. Pres., J. T. ALLEN, Pomona.

Sec.-Treas., F. DUNN, Cal.

The Graduate Club of the University of Chicago.

Pres., C. K. CHASE, Oberlin.

Rec. Sec., CORA L. SCOFIELD, Vassar.

V. Pres., G. F. HULL, Toronto.

Cor. Sec., AMY E. TANNER, Michigan.

Treas., M. L. MILLER, Colby.

The Students' Association of Clark University.

Organized January 24th, 1896.

Pres., T. W. EDMONDSON, Cambridge, Eng.

V. Pres., ARTHUR ALLIN, Berlin.

Sec.-Treas., T. R. CROSWELL, Bowdoin.

The Graduate Club of Columbia University.

Organized in November, 1893.

Pres., FREDERIC L. LUQUEER.

Sec., MILO R. MALTBIE.

V. Pres., HERBERT M. JOHNSTON.

Treas., JOSEPH A. WRIGHT.

The Graduate Students' Club of Cornell University.

Reorganized in 1895.

Pres., JAMES F. BROWN, Earlham.

2d V. Pres., OSCAR M. STEWART, De Pauw.

1st V. Pres., BERTHA STONEMAN, Cornell.

Sec., ALICE J. HAMLIN, Wellesley.

Treas., FRANK G. BATES, Cornell.

The Graduate Club of Harvard University.

Organized in February, 1889.

Pres., C. A. DUNIWAY, Cornell.

Sec., F. P. GULLIVER, Harvard.

V. Pres., J. H. BOYNTON, Harvard.

Treas., J. B. BROWDER, Vanderbilt.

The Graduate Students' Association of Johns Hopkins University.

Hon. Pres., PROF. HERBERT B. ADAMS.

V. Pres., A. S. HAGGETT, Bowdoin.

Pres., E. A. SMITH, Ohio Wesleyan.

Sec., A. H. BAXTER, Johns Hopkins.

Treas., W. E. HENDERSON, Wooster.

The Graduate Club of Leland Stanford, Jr., University.

Organized in 1895.

Pres., J. C. KIRTLAND, Jr., Hobart.

V. Pres., BERTHA DE LAGUNA, Stanford.

Sec.-Treas., MAXWELL ADAMS, Stanford.

The Graduate Club of the University of Michigan.

Organized January 20th, 1894.

Pres., MARY G. WILLIAMS, Michigan. *V. Pres.*, A. L. DAVIS, South Dakota.

Sec.-Treas., D. R. SNART, Michigan.

The Graduate Club of the University of Minnesota.

Pres., CHARLES P. BERKEY.

Sec., LOUISE MCCOY.

V. Pres., CLARA E. BAILEY.

Treas., WILLIAM ANGUS.

The Graduate Club of the New York University.

Organized February 14th, 1896.

Pres., GEORGE OSBORN, N. Y. U.

Sec., MARION LAW, U. of D.

V. Pres., WILLIAM E. STAUB, Bucknell.

Treas., KARL SCHWARTZ, Syracuse.

The Graduates' Club of Northwestern University.

Pres., HARRY E. PATTEN.

V. Pres., VERNON J. HALL.

Sec.-Treas., ANNA NEIGLICK.

The Graduate Club of the University of Pennsylvania.

Organized November 23d, 1893.

Pres. ex officio, PROVOST CHARLES C. HARRISON.

1st V. Pres., OSCAR GERSON.

2d V. Pres., ROBERT HOPE.

Sec.-Treas., ELLIS A. SCHNABEL, Lehigh.

The Princeton Graduate Club.

Organized in 1895.

Pres., A. H. BARR, Princeton.

Sec., W. FOSTER, Jr., Hartford.

Treas., R. L. ZABRISKIE, Princeton.

The Graduate Club of Radcliffe College.

Pres., KATE O. PETERSEN, Vassar.

Sec., CAROLINE V. LYNCH, Smith.

Treas., ANNETTE FISKE, Radcliffe.

The Graduate Club of Tulane University.

Hon. Pres., PROF. ROBT. SHARP.

V. Pres., E. D. MARTINEZ.

Pres., J. H. RAPP.

Sec., L. H. SCHERCK.

Treas., J. P. LABOUISSÉ.

The Graduate Club of Vanderbilt University.

Organized 1894-5.

Pres., J. REESE LIN, Emory.

Treas., T. D. MCINTYRE, Ky. Wesleyan.

V. Pres., D. T. WILSON, Univ. of N. C.

Sec., J. O. MAHONEY, Vanderbilt.

The Graduate Club of Western Reserve University.

Hon. Pres., DEAN R. W. DEERING. *V. Pres.*, META W. PETERS, Cleveland

Pres., HARRY W. WOODWARD, Adelbert. Col. for Women.

Sec.-Treas., HENRY A. PRESTON, Adelbert.

The Graduate Club of the University of Wisconsin.

Pres., CHARLES H. SHANNON, Vanderbilt. *Sec.*, MYRON E. BAKER, Wisconsin.

V. Pres., FLORENCE PORTER ROBINSON, *Treas.*, JOHN L. MEAD, Wisconsin.
Wisconsin.

INTRODUCTORY.

BARNARD COLLEGE.

Barnard College duplicates for women the undergraduate course of Columbia and registers graduate students for work under the University Faculties. All degrees are conferred by Columbia. Students have full privileges in the University Library. Seniors and graduate students attend lectures at Columbia under the Faculty of Philosophy. Graduate instruction under the Faculties of Political Science and Pure Science is given at Barnard. All general academic statements made by Columbia apply equally to Barnard. EMILY JAMES SMITH, Dean. Address Mrs. N. W. LIGGETT, Registrar, New York City.

BROWN UNIVERSITY.

The University was founded by the Philadelphia Baptist Association in 1764, the first Commencement being held in September, 1769. For the year ending April 15th, 1895, the endowment yielding interest was \$1,089,118.66. The income for current expenses, exclusive of special funds, etc., was \$130,059.87. Degrees were first granted to graduates from the Graduate Department in 1889. The advanced degrees of Master of Arts and Doctor of Philosophy are conferred. By a graduate course is meant one primarily intended for those who have already attained one of the academic degrees. Women are admitted on the same terms with men, but undergraduates are instructed in separate classes.

The year begins on the third Wednesday in September, is divided into three terms, and ends the third Wednesday in June. E. BENJAMIN ANDREWS, President. Address FREDERICK T. GUILD, Registrar and Secretary of the Faculty, Providence, R. I.

BRYN MAWR COLLEGE.

Founded in 1880 with the endowment of Dr. Joseph W. Taylor, the College opened in the autumn of 1885. The realized endowment, excluding buildings and grounds, is about \$1,000,000. The College is an "institution for the advanced education of women." It admits these classes of students: graduates, undergraduates, specials, and hearers. Special students must have passed the examination for matriculation. Hearers attend courses by the consent of the several instructors and receive certificates from them only. The Graduate Department was organized in 1885. Degrees of Master of Arts and Doctor of Philosophy are granted. A graduate course is one which presupposes a minor, major, and post-major undergraduate course (*i. e.*, three years of undergraduate instruction), and to which only students that have the A.B. degree, or its full equivalent, are admitted.

The year is divided into semesters. For 1896-7 the first begins on September 29th, and the second on February 8th. M. CAREY THOMAS, President. Address MADELINE VAUGHAN ABBOTT, Secretary, Bryn Mawr, Pa.

UNIVERSITY OF CALIFORNIA.

Founded by an Act of the Legislature in 1868. The University is a State institution, having an income of about \$300,000. Graduate instruction has been carried on since 1874. The following advanced degrees are granted: Master of Arts, Master of Letters, Master of Science, Doctor of Philosophy. Graduate

courses are devoted entirely to advanced work. They presuppose a full undergraduate training, and are chiefly intended to develop professional scholars and specialists who shall be able to carry on original research. Women are admitted on equal terms with men.

The year is divided into two terms. For 1896-7 the terms extend from August 10th to December 19th, and from January 11th to May 15th. MARTIN KELLOGG, President. Address JAMES SUTTON, Recorder of the Faculties, Berkeley, Cal.

UNIVERSITY OF CHICAGO.

Founded by John D. Rockefeller in 1890, the University was opened October 1st, 1892. The realized endowment at the end of the last fiscal year was \$3,000,000. The income was \$564,000. Assets of the University, including funds subscribed and those now in hand, exceed \$10,000,000. The Graduate School was organized in 1892. The degrees of Master of Arts, Master of Science, Doctor of Philosophy, and Doctor of Science are granted, and may be conferred at the end of any quarter. No definition of a graduate course is given. Most advanced courses are open to suitably prepared juniors and seniors, as well as to graduates. Women are admitted on the same terms with men.

The year is divided into quarters beginning on the 1st of July, October, January, and April. WILLIAM R. HARPER, President. Address THE UNIVERSITY EXAMINER, Chicago, Illinois.

CLARK UNIVERSITY.

Founded in 1887 by Jonas G. Clark, the University was opened in October of 1889. It admits only graduate students, and confers only one degree, that of Doctor of Philosophy. Its courses presuppose a knowledge of what is usually required by the best colleges in each department as a condition of the degree of A.B. Women are not admitted.

The year begins October 1st. G. STANLEY HALL, President.
Address LOUIS N. WILSON, Clerk, Worcester, Mass.

COLUMBIA UNIVERSITY.

Founded in 1754 by a charter from George II., and originally called "Kings College." The receipts for the last fiscal year were \$747,635; expenditures, \$717,937. Reorganized in 1890 on the German plan, and name changed from Columbia College to Columbia University in 1896. Among the University Faculties are those of the School of Political Science, the School of Philosophy, and the School of Pure Science. Degrees of Master of Arts and Doctor of Philosophy are granted. Students have matriculation privileges at Union Theological Seminary and the Teachers' College.

The year is divided into two semesters. For 1896-7, these begin October 5th and February 8th. Address SETH Low, President, New York City.

CORNELL UNIVERSITY.

Founded in 1865, and endowed with New York's apportionment of public lands under the Morrill Land Grant Act, in addition to large gifts from Ezra Cornell, the University was opened in 1868. For the year ending August 1st, 1895, the endowment was \$9,024,275.57, and the income \$519,691.59. Graduate instruction has been given since 1868, the first advanced degree being conferred in 1870. There is no separately organized Graduate Department, the work being in charge of a Faculty Committee on Graduate Work. Degrees of Master of Arts, Master of Philosophy, Master of Letters, Master of Science, Doctor of Philosophy, and Doctor of Science are conferred. Cornell does not define a graduate course. Most of the elective courses are open to both graduates and undergraduates. Women are admitted on the same terms with men.

The year is divided into three terms. For 1896-7 these begin September 21st, January 4th, and April 6th. JACOB GOULD SCHURMAN, President. Address D. F. HOY, Registrar, Ithaca, N. Y.

HARVARD UNIVERSITY.

Founded in 1636 by the vote of the General Court of Massachusetts. The realized endowment at the close of the fiscal year 1894-5 was \$8,381,581.83. Income was \$1,084,090.94. The Graduate Department was organized in 1872. The degrees of Bachelor of Arts, Master of Arts, Doctor of Philosophy, and Doctor of Science are open to such students in the Graduate School as have been accepted as qualified for candidacy. The Faculty of Arts and Sciences distributes its courses into three groups, those intended primarily for undergraduates, those for graduates and undergraduates, and those primarily for graduates. The courses in the second group are largely recommended to graduate students. The policy of the University is to draw no hard and fast lines between the groups, but to admit into any course students qualified to pursue it, irrespective of their academic standing. Women are not admitted, but many courses are open to Radcliffe graduate students.

The year is divided into two half-years. For 1896-7 these begin October 1st and February 15th. CHARLES WILLIAM ELIOT, President. Address RICHARD COBB, Corresponding Secretary, Cambridge, Mass.

JOHNS HOPKINS UNIVERSITY.

Founded in 1867, through the munificence of Johns Hopkins, lectures being first delivered in 1876. The original endowment amounted to about \$3,500,000. University instruction is offered to advanced and graduate students whether candidates for a degree or not. The only advanced degree conferred is Doctor

of Philosophy. The aim of graduate courses is "that while a student is becoming familiar with the work prosecuted and the results obtained elsewhere, and is adding to his general culture, he may be encouraged to become himself an independent and original investigator in his chosen field of labor." The University does not admit women, except in the medical department.

The year is divided into two half-years, beginning in October and February. D. C. GILMAN, President. Address T. R. BALL, Registrar, Baltimore, Md.

LELAND STANFORD JUNIOR UNIVERSITY.

Founded in 1885 by Leland Stanford and Jane Lathrop Stanford, his wife, the University was first opened to students October 1st, 1891. It has a permanent landed endowment of 90,000 acres, will receive \$2,500,000 by the terms of the will of Mr. Stanford, and upon the death of the co-founder will become heir to the remainder of his estate. The expenditures of the past fiscal year amount to about \$225,000. The degrees of Master of Arts and Doctor of Philosophy are conferred for courses of advanced work beyond the undergraduate requirements in the various departments. Women are admitted on the same footing with men.

The year is divided into two semesters, the first beginning early in September, the second early in January. DAVID STARR JORDAN, President. Address O. L. ELLIOTT, Registrar, Stanford University, California.

UNIVERSITY OF MICHIGAN.

Founded in 1837, by an Act of the Legislature of Michigan, as a part of the public instruction, the first of its Departments was opened in 1841. Its endowment is \$540,000. The income of the last fiscal year was \$440,146.87. The Graduate School was organized in 1892. The degrees of Master of Arts, Master

of Science, Master of Philosophy, Master of Letters, Doctor of Philosophy, Doctor of Science, and Doctor of Letters are conferred. No definition of a graduate course is given, but no elementary work in any subject is allowed to count as graduate work. Women are admitted on the same terms with men.

The year is divided into two semesters, beginning about October 1st and February 15th. JAMES B. ANGELL, President. Address Prof. P. R. DEPONT, Registrar, Ann Arbor, Michigan.

UNIVERSITY OF MINNESOTA.

Originally organized by an Act of the Territorial Legislature in 1851, the University was made the "State University" in 1857. It was reorganized in 1864, 1868, and 1872. Instruction in the college classes was first given in September, 1868. The annual income is about \$225,000. The Graduate Department was organized in 1895-6. The following advanced degrees are conferred: Master of Arts, Master of Science, Master of Literature, and Doctor of Philosophy. By a graduate course is understood a continuous, systematic pursuit of some topic not offered to undergraduates, and of a more advanced character than work required for a bachelor's degree. Women are admitted on the same terms with men.

The year is divided into three terms. For 1896-7 these begin September 6th, December 3d, and March 7th. CYRUS NORTHROP, President. Address JABEZ BROOKS, Minneapolis, Minnesota.

NEW YORK UNIVERSITY.

Founded in 1831. Instruction began in 1832. Income for fiscal year, \$260,289. The Graduate School was organized in 1886, and wholly reorganized in 1892. Degrees of Master of Arts, Master of Philosophy, Master of Science, Doctor of Philosophy, and Doctor of Science are conferred. By a gradu-

ate course the University means specialized work by a graduate student under the direction of a professor in such amount as may fitly occupy about one half of the student's time for an academic year. All courses are open to students holding bachelor's degrees. Women are admitted to the courses of the Graduate School on the same terms with men.

The year consists of eight months of work, with an intermission of ten days during holiday time. The year begins October 1st. HENRY M. MACCRACKEN, Chancellor. Address THE REGISTRAR, Washington Square, New York City.

NORTHWESTERN UNIVERSITY.

Founded in 1851, and opened in November, 1855. The income, exclusive of special funds, is about \$250,000. The degrees of Master of Arts, Master of Science, Master of Philosophy, Master of Letters, and Doctor of Philosophy are conferred. In addition to the courses open exclusively to graduates, certain of the undergraduate courses are also open to them. Women are admitted to the classes on the same terms as men.

The year is divided into three terms. For 1896-7 the year begins September 17th, and the registration of graduate students must be effected at a date not later than the first Monday in October. HENRY WADE ROGERS, President. Address Professor CHARLES B. ATWELL, Registrar, Evanston, Illinois. -

UNIVERSITY OF PENNSYLVANIA.

Founded as the Charitable School in 1740, and becoming the "College and Academy of Philadelphia" in 1751, it was amalgamated with the University of the State of Pennsylvania under its present title in 1791. The Graduate Department (under the title "Department of Philosophy") was organized

November 17th, 1885. The Degrees of Master of Arts, Master of Science, and Doctor of Philosophy are conferred. Courses in the Department of Philosophy are entirely distinct from the undergraduate work and are intended for persons desirous of continuing their studies upon lines more strictly defined and specialized. They are such as are not represented at all in the undergraduate work, but presume a full college course as a basis. Women are admitted to all the courses in this Department on the same terms with men. The courses are given by the same instructors and lead to the same degrees.

The year is divided into two terms, beginning October 1st and February 1st. CHARLES C. HARRISON, Provost. Address WILLIAM A. LAMBERTON, Dean of the Department of Philosophy, Philadelphia, Pa.

PRINCETON.

COLLEGE OF NEW JERSEY.

Founded in 1746. A second and more ample charter was obtained in 1748, and this was confirmed and renewed after the Revolution. Every instructor in the College may, with the consent of the Faculty, give instruction to graduate students. The degrees of Master of Arts, Master of Science, Doctor of Philosophy, Doctor of Science, and Bachelor of Divinity are conferred. In addition to the courses open to graduate students only, many of the courses of the Senior year, and some of those of the Junior year, are also open to them. These are not courses which are given for their disciplinary value, nor are they usually courses in which a subject is begun. They may be offered by candidates for the degree of Master of Arts or Master of Science. Women are not admitted.

The year is divided into two terms. For 1896-7 these begin September 23d and February 11th. FRANCIS LANDEY PATTON, President. Address Professor W. F. MAGIE, Princeton, N. J.

RADCLIFFE COLLEGE.

Radcliffe College, the successor of the Society for the Collegiate Instruction of Women, offers systematic collegiate instruction to women under the professors and other teachers of Harvard University. The requirements for admission are identical with those for admission to Harvard College. The courses of instruction given in Radcliffe College correspond to both undergraduate and graduate courses offered by Harvard University, and are more than sufficient to enable a woman to perform the work required by the University for the degrees of Bachelor of Arts and Master of Arts. In addition to these, graduate students in Radcliffe College now have access to fifty-five graduate courses in Harvard University. The examinations are the same in both institutions, and the diplomas conferring the degrees of A.B. and A.M. are countersigned by the President of Harvard University as a guarantee that these degrees are equivalent to the corresponding degrees given by the University.

The arrangement of the academic calendar corresponds to that of Harvard. Mrs. LOUIS AGASSIZ, President. Address MARY COES, Secretary, Cambridge, Mass.

TULANE UNIVERSITY OF LOUISIANA.

Tulane University of Louisiana was formed in 1884 by the consolidation of the University of Louisiana (1834) and Tulane University (1883) on an endowment by Paul Tulane. The endowment is \$2,000,000 and the income \$150,000. The University embraces (besides other departments) a Department of Philosophy and Science, and a Department for Teachers, supplementary to Normal College instruction. Graduate work has been carried on since 1884. Collegiate work and Graduate work are sharply differentiated. Only college graduates are matriculated as University students. Women are admitted to

the University Departments on the same conditions as men, receiving all privileges, degrees, etc.

The year is divided into three terms, beginning October 1st, January 4th, and March 26th. WILLIAM PRESTON JOHNSTON, President. Address WILLIAM O. ROGERS, Secretary, New Orleans, La.

VANDERBILT UNIVERSITY

Founded in 1873 by the munificence of Cornelius Vanderbilt. The endowment at the end of the last fiscal year was \$900,000. Income was \$63,000. Graduate work has been carried on from the beginning. Degrees of Master of Arts, Master of Science, Doctor of Philosophy, and Doctor of Science are conferred. Any course is considered as graduate work which extends beyond the requirements for a bachelor's degree, and which can be counted on higher degrees. All advanced courses are open also to suitably prepared undergraduates. Women are admitted "students by courtesy." They are not formally matriculated but are recommended for degrees by the Faculty, on completion of course.

The session begins on September 18th, and ends June 17th. J. H. KIRKLAND, Chancellor. Address WILS WILLIAMS, Secretary, Nashville, Tenn.

WELLESLEY COLLEGE.

Wellesley College received a charter in 1870, and was opened in 1875, for the purpose of furnishing to young women advantages and facilities for a liberal education. The College comprises the Academic Department, the School of Music, and the Department of Art. Each of these has its special faculty, and all are under the direction and control of the President of the College, and the Board of Trustees.

In the Academic Department the degrees of Bachelor of Arts and Master of Arts are conferred. The work of graduate

students is under the direction of a committee appointed from the Faculty of the College.

The academic year consists of thirty-five weeks and begins on the Wednesday following the fourteenth of September. The year is divided into two semesters. President, JULIA JOSEPHINE IRVINE. Address MARY ETTA GORHAM, Secretary, Wellesley, Mass.

WESTERN RESERVE UNIVERSITY.

Founded in 1826 as Western Reserve College. The interest-bearing funds are over \$1,000,000, its property being valued at \$2,200,000. In 1895-6 the income was about \$100,000. The Graduate School was established in 1892. Degrees of Master of Arts and Doctor of Philosophy are conferred. All courses open to graduate students are considered graduate courses, but starred courses are open to them only as minors. The College for Women is a Department of the University, and women are admitted to the Graduate School on the same terms with men.

The year is divided into two terms, of which the first will begin September 24th, 1896, and the second February 9th, 1897. CHARLES F. THWING, President. Address R. W. DEERING, Dean of the Graduate School, Cleveland, Ohio.

UNIVERSITY OF WISCONSIN.

Founded by the State in 1849 and reorganized in 1866. The expenditures for 1894-5 were \$379,129.11. Income for 1895-6 is \$404,600. The Graduate Department, which had hitherto consisted mainly of advanced courses given in connection with the various schools, was separately organized in 1895. The degrees of Master of Arts, Master of Letters, Master of Science, and Doctor of Philosophy are conferred. Graduate courses are especially intended to encourage research, and graduate instruction in the several departments presupposes

generally the full undergraduate courses — required and elective — in such departments. Women are admitted on the same terms with men.

The year is divided into semesters. For 1896-7 these begin September 25th and February 9th. CHARLES KENDALL ADAMS, President. Address W. G. HIESTAND, Registrar, Madison, Wis.

YALE UNIVERSITY.

Founded in 1701 by a charter from the General Court of Connecticut, which endowed the college with an annual grant. Funds, exclusive of grounds, buildings and collections, in 1895 amounted to nearly \$4,000,000. Expenditures in 1894-5 were over \$700,000. Graduate instruction was definitely organized in 1847. The advanced degrees of Master of Arts and Doctor of Philosophy are conferred. A graduate course is one of a character sufficiently advanced to entitle it to be credited in work for the degree of Doctor of Philosophy. Women are admitted on the same terms with men to courses leading to the Doctor's degree.

The year is divided into two terms. For 1896-7 these begin September 24th and January 5th. TIMOTHY DWIGHT, President. Address ANDREW W. PHILLIPS, Dean of Graduate Department, New Haven, Conn.

EXPLANATORY.

It is hoped that the simplicity of the plan of these lists of Graduate Courses will make it easy for the reader to find just the information he seeks. In brief the points of that plan are as follows:—

(1) To use convenient general titles for grouping courses on related subjects. Difficulties of classification have been met by the cross references under many department headings.

(2) To bring together (within the several departments), under the name of each instructor, all his advanced courses in the particular departments. This arrangement meets the needs of advanced students, who seek the instructor with whom they wish to study, rather than the institution in which to get instruction.

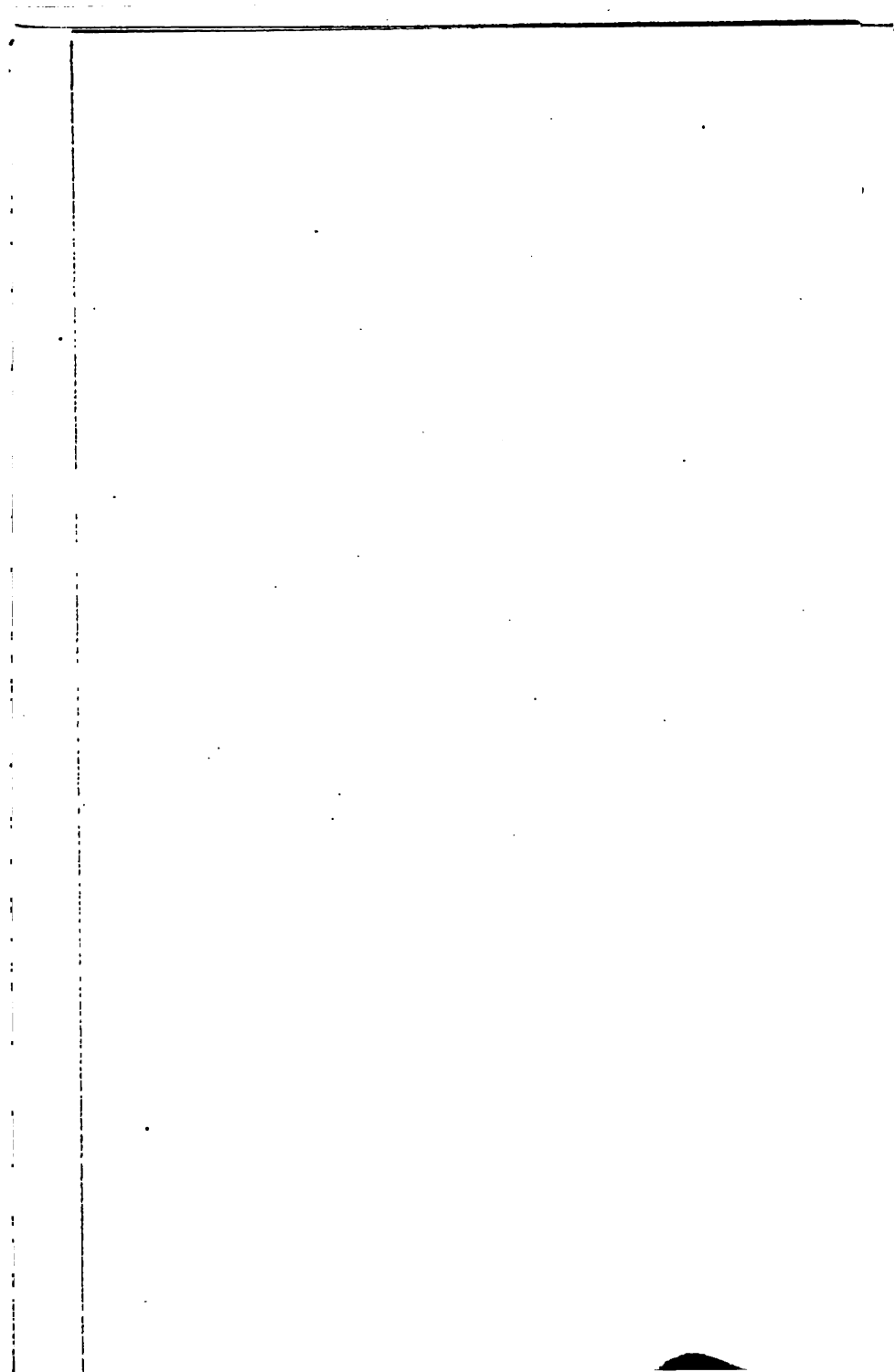
(3) To put all the work of each instructor into a form for ready reference by adding a full index of names.

(4) To present brief collegiate biographies of instructors, with some of the subjects on which they have published. The omission of these facts in not a few cases has been by request.

(5) To state the numbers of Graduate Students who have taken courses in each department during 1895-6, thus giving an index of the amount of graduate work actually done. A Graduate Student often takes courses in two or more departments; such student counts once in each of those departments. There has been some difficulty in getting the registration in the form required for the Handbook, the Chicago Editor being almost wholly unable to obtain it. A dash, followed by a mark of interrogation, calls attention to the absence of this information.

(6) To mention special facilities in each department of the several institutions, with the fellowships and scholarships open to Graduate Students.

(7) To give all the advanced courses definitely offered by each instructor, using short titles, and indicating the amount of time required for each course. The number of hours per week is put in small Roman, the number of weeks in Arabic numerals. A dash, followed by a mark of interrogation, calls attention to the absence of specific information. Unless months are given, a course usually extends from September or October to May or June (inclusive). The abbreviations for the names of the months are as follows: Ja., F., Mar., Ap., My., Jun., Jul., Au., S., O., N., D.





(8) To enclose in brackets all courses not to be given in 1896-7. Bracketed courses usually may be expected in 1898-9.

(9) To mark with the asterisk all courses "not designed primarily for Graduate Students." It should be borne in mind that "Graduate work" in each institution is conditioned by local plans of administration, as well as by the previous preparation of Graduate Students. The marking of a course with an asterisk simply means that (under the conditions prevailing in his institution) the instructor does not offer the course with a primary purpose of meeting the needs of Graduate Students. But the inclusion of the course in these lists indicates that it is often useful to such students.

(10) To combine in a tabular view statistics of instructing bodies, of registration of Graduate Students, of higher degrees conferred in 1895, and of libraries; with concise statements of the requirements for advanced degrees, of fees exacted of Graduate Students, and of fellowships and scholarships open to them.

I. LANGUAGES AND LITERATURES.

1. SEMITIC LANGUAGES AND LITERATURES.

[With Semitic History, Biblical Literature, Biblical and Patristic Greek and Latin.]

BARNARD.

1 Graduate Student, 1895-6.

[See Columbia Courses marked B.]

BROWN.

4 Graduate Students, 1895-6.

C. F. KENT, Assoc. Prof. of Bibl. Lit. and Hist.

A.B., Yale, '89, and Ph.D., '91; Docent of Bibl. Lit., Chicago, '92-3; Instr., same, '94-5; Chart of Bibl. Hist., Hist. of the Hebrew People.

*Hebrew (el). iii, 33.

*Hebrew History. iii, 23, S.-Mar.

*Minor Prophets of Assyrian Period. iii, 11, Ja.-Mar.

*Wisdom Lit. of O. Test. iii, 10, Ap.-Jun.

*Arabic (el). i, 33.

*Assyrian (el). i, 33.

*Hist. Inscriptions of Sennacherib and Esarhaddon. iii, 23, S.-Mar.

BRYN MAWR.

6 Graduate Students, 1895-6.

Semitic Library of A. Amiaud of Paris.

G. A. BARTON, Assoc. in Bibl. Lit. and Semitic Langs.

A.B., Haverford, '82, and A.M., '85; A.M., Harv., '90, and Ph.D., '91.

[Classical Aramaic (Syriac). ii, O.-F.]

[Jewish Aramaic. ii, F.-Jun.]

Assyrian Seminary. ii, 30.

Arabic (adv). ii, 30.

Hist. of Arabic Caliphates and Civilization. i, 30.

Hist. Outlines of Christian Thought. i, 30.

*New Testament Greek. ii, 30.

Biblical Poetry. i, O.-F.

Old Test. Prophets. i, O.-F.

Pentateuchal Criticism. i, F.-Jun.

Journal Club. Fort.

CALIFORNIA.

— ? Graduate Students, 1895-6.

JACOB VOORSANGER, Prof. of Semitic Langs. and Lits.

Elements of Syriac. i, 32.

Hebrew (adv). ii, 32.

*Elements of Hebrew. iii, 32.

CHICAGO.

— ? Graduate Students, 1895-6.

*N. B. — In the Semitic dept. all courses are intended primarily for Graduate and Divinity Students, but may be taken by University College Students who are prepared. 2 Fels. in Semitics, 2 in Theology, 2 in N. Test.

W. R. HARPER, President; Head Professor of Semitic Langs.

A.B., Muskingum Col., '70; Ph.D., Yale, '75; D.D., Colby; LL.D., Univ. of Neb.; Principal, Am. Inst. Sacred Lit.; Principal, the Chautauqua system. — Ed. *Biblical World* and *Hebraica*.

Begin. Hebr. x, 6, Jul.-Au., also Au.-S. (with Dr. Breasted). Also Ap.-My. (with Dr. Crandall).

Chicago — Continued.

Minor Prophets, Babylon. Period. iv, 6, Jul.-Au. Post-exilic, Au.-S.
 Hebr. Gram. (adv). iv, 12, Jul.-S.
 Arabic (cl). iv, 6, Jul.-Au. Geog., Hist., Commentary, Au.-S. Later Suras of Quran, 12, O.-D. Poetry, Ja.-Mar.
 O. Test. Prophecy. iv, 12, O.-D. Devel. of Lit., Ja.-Mar. Devel. of Theol. Ideas, Apr.-Jun.
 Seminar in Semitics. iv, 12, O.-D., also Ja.-Mar., and Ap.-My.
 Ethiopic. iv, 6, Ja.-F.
 Comp. Semitic Gram. iv, 12, Ja.-Mar.
 Books of Kings. x, 6, My.-Jun. (with Dr. Crandall).

E. G. HIRSCH, Prof. of Rabbinical Lit. and Philosophy.

A.B., U. of Penn., '72, and A.M., '75; Ph.D., Leipzig, '76. — Ed. *Zeitgeist, Reformer, Reform Advocate*.

Hist. Jewish Sects. iv, 6, Jul.-Au.
 Arabic, Thousand and One Nights. iv, 6, Jul.-Au. Philos., Au.-S. Philos. Lit., Ap.-Jun.
 Ethiopic (adv). iv, 6, Jul.-Au.
 Book of Job. iv, 6, N.-D.
 Rabbin. Lit. and Life. iv, 6, Au.-S. Com. on Genesis, O.-N. Philos., Ja.-Mar.
 Talmud. Sem. iv, 12, O.-D. Civil and Crim. Legisla., 6, Ja.-F. Analogies to N. Test., Ap.-My.
 Mandaic. iv, 6, F.-Mar.
 Gen. Intro. to Textual Crit. of O. Test. iv, 12, Ap.-Jun.

IRA M. PRICE, Assoc. Prof. of Semitic Langs. and Lit.

A.B., Denison, '79; Prof. of Greek, Des Moines, '79-'80; D.B., Bapt. Union Theol. Sem., '82; Instr. Am. Inst. Hebrew, '82-4; Ph.D., Leipzig, '86; Instr. in Semitic Langs., Bapt. Union Theol. Sem., '86-8; Prof. Semitic Langs., '88-'92.

O. Test. Hist. of Canon and Text. iv, 12, O.-D. Mod. Discoveries and O. Test., Ap.-Jun.

Earliest Unilingual Cuneiform Inscripts. iv, 12, O.-D.

Bk. of Jeremiah. iv, 6, Ja.-F. Ezekiel, F.-Mar.

Psalter. iv, 12, Ja.-Mar.

Biblical Aramaic. iv, 6, F.-Mar.

Seminar in North Semitic Langs. iv, 12, Ja.-Mar. South Semitic Langs., Ap.-Jun.

Isaiah, i-xxxix. iv, 6, Ap.-My. Also, xi-lxvi, My.-Jun.

Early Babylonian Inscripts. iv, 12, Ap.-Jun.

G. S. GOODSPEED, Assoc. Prof. of Comp. Relig. and Anc. Hist., and Recorder.

A.B., Brown, '80, and A.M., '83; Asst. in Semitics, Yale, '88-'91; Ph.D., same, '91.

Semitic Religions, Egypt., Assyr., Bab., Hebrew, Islam. iv, 24, Ja.-Jun.

R. F. HARPER, Assoc. Prof. of Semitic Langs. and Lit.

A.B., Old Univ. of Chicago, '83; Ph.D., Leipzig, '86; Instr. in Semitics, Yale, '87-8, and '89-'91; Assyriologist to the Expedition of the Babylonian Explora. Fund, '88-9.

Bks. of Samuel. iv, 6, Jul.-Au. Kings, Au.-S.

Assyrian Lang. iv, 12, Jul.-S.

Early Hist. Inscripts. iv, 12, Jul.-S. Syriac (cl). iv, 12, O.-D. Adv., Ja.-Mar.

Babylonian Hist. Inscripts. iv, 12, O.-D.

Assyrian Syllabaries and Mytholog. Inscripts. iv, 12, Ja.-Mar.

C. E. CRANDALL, Univ. Extens. Instr. in Semitic Langs.

A.B., Milton Col., '79, and A.M., '85; D.B., Bapt. Union Theol. Sem., '85; Asst. in Semitics, Yale, '89-'91; Ph.D., same, '91.

Hebrew sight reading in Samuel. ii, 6, Au.-S. In Deuteronomy, Au.-S., and Ja.-F. In Jeremiah, F.-Mar.

Bks. of Chronicles. iv, 6, N.-D.
Bk. of Judges. iv, 12, O.-D.

J. H. BREASTED, Asst. in Egyptian Lang. and Lit.

A.B., Northwestern, '89; A.M., Yale, '92; Fellow, Chicago, '92-4; Ph.D., Berlin, '94.

Bk. of Deuteronomy. iv, 6, Au.-S.
Egyptian (el). iv, 12, Jul.-S., also O.-D. Texts of Classic Period, Ja.-Mar. Late Egyptian, Ap.-Jun.
Coptic. iv, 12, O.-D. Sahidic Dialect, Ja.-Mar. Bohairic Dialect, Ap.-Jun.

E. D. BURTON, Head Prof. of N. Test. Lit. and Interp.

A.B., Denison, '76; Graduate, Rochester Theol. Sem., '82; Assoc. and Prof. in Newton Theol. Inst., '83-'92.

Bk. of I. Thessalonians. iv, 6, Jul.-Au.
Bk. of I. Corinthians. iv, 6, Jul.-Au.
Bk. of Galatians. iv, 6, Au.-S. Matthew, 12, O.-D. Romans, Ja.-Mar.
Intro. to Synoptic Gospels. iv, 12, O.-D.
Intro. to Pauline Epistles. iv, 12, O.-D.
N. Test. Greek. iv, 12, Ja.-Mar.

S. MATHEWS, Assoc. Prof. of N. Test. Hist. and Interp.

A.B., Colby, '84, and A.M., '87; Prof. of Hist. and Pol. Econ., same, '89-'94.

N. Test. Times in Palestine. iv, 12, O.-D.
Gospel of Luke. iv, 12, O.-D.
Life of Christ. iv, 12, O.-D.
Hist. of Apostolic Church. iv, 6, Au.-S.

C. W. VOTAW, Tutor in Biblical Lit.

A.B., Amherst, '88; D.B., Yale, '91; A.M., Amherst, '92; Docent, Chicago, '92-4.

N. Test. Greek. viii, 6, Au.-S.
Rapid reading in N. Test. iv, 12, Ap.-Jun.

COLUMBIA.

9 Graduate Students, 1895-6.

[Courses marked B are open to Barnard Students.]

Courses in Semitic at the Union Theological Seminary are open to students of Columbia, and count as work for A.M. and Ph.D. The university and seminary libraries contain most of the periodicals which deal with Oriental research, and are esp. rich in works of Rabbinical Hebrew, Colls. Hebr. and Arabic MSS., Babylon. tablets.

R. J. H. GOTTHEIL, Prof. of Rabbin. Lit. and Semit. Langs.

A.B., Columbia, '81; Ph.D., Leipzig, '86. — Co-ed. *Zeitschrift der Deutsch. Morgenländ. Gesell., Jour. Am. Orient. Soc., Hebraica.*

- B)*Bibl. Hebr. (el). ii, 30.
- B)*Bibl. Hebr. (adv). ii, 15, O.-F.
- B)*Bibl. Hebr. (crit). ii, 15, O.-F.
- B)*Rabbin. Hebr. Mechilta. ii, 15, O.-F.
- B)Rabbin. Hebr. Talmud. ii, 15, F.-Jun.
- B)Rabbin. Hebr. Post Talmudic. i, 15, F.-Jun.
- B)Semitic Epigraphy. Phœnician Inscriptions. i, 30.
- B)[Aramæan Inscriptions. i, 30.]
- B)[Sabæan and Himyaritic Inscriptions. i, 30.]
- B)[Assyrian (el). ii, 30.]
- B)Assyrian (adv). ii, 30.
- B)Arabic (1st course). ii, 15, O.-F.
- B)Arabic (2d course). ii, 15, F.-Jun.
- B)Arabic (adv). ii, 30.
- B)Syriac. ii, 30.
- B)[Syriac (adv). ii, 30.]
- B)[Ethiopic. i, O.-Ja.]
- B)Seminar. Methods of Linguistic Research. ii, 30.
- B)Intro. to Science of Language. ii, O.-My. (with Prof. W. H. Carpenter).

JAMES C. EGBERT, Jr. [see 2].

- B)Septuagint and Vulgate, Job. i, F.-Jun.

CLARENCE H. YOUNG [see 2].

- B)*Gk. Test., Gospels and Acts. ii, O.-F. Epistles, F.-Jun.

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o Graduate Students, 1895-6.

A. C. WHITE, Reader in N. Test. Gk.

A.B., Hamilton, '81; Fellow in Class. Philol., Cornell, '84-5; Ph.D., same, '85; Instr. in Greek and Latin, '85-8; Asst. Librarian, '88. — Latin Adv. and Conjs.

*N. Test. Greek. ii, 32.

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A.M., Virginia, '56; Prof., So. Bap. Theol. Sem., '69-79. — Semitic Gram., Relig. of O. T., Quotations from O. Test. in N. Test.

*Hist. of Pre-Christian Hebrew Lit. iv, 15, O.-Ja.

*Hist. Hebr. Relig., compared with other Semitic Relig. ii, 30.

*[Hist. of Bagdad Califate. Moham-medanism in India. Lects. on Lit. The Koran. i, 30.]

*Hist. of Spanish Califate. The Koran. i, 30.

R)Hebrew (adv). ii, 30.

[Ethiopic. i, 30.]

R)General Semitic Gram. Research.

R)Arabic (2d course). ii, 30.

The Talmud. Rosh ha-Shanah. — ?

D. G. LYON, Prof. of Divinity.

Ph.D., Leipzig, '82. — Assyrian Lang. and Relig., Hebr. Hist.

*Hebrew (el). iii, 30.

*Babylonian-Assyrian Hist. i, 30.

*Hist. of Israel. ii, 30.

R)Assyrian (adv). ii, 30.

R)Assyrian Gram. Research.

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R)Classical Aramaic (Syriac). ii, 15, O.-Ja.

R)Jewish Aramaic. ii, 15, F.-My.

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A.B., Harv., '89, A.M., '91, and Ph.D., '93; Asst. in Imperial Museum, Berlin, '95. — Babylonian bilingual hymns, various papers on Assyriology, etc.

R)Assyrian (el). ii, 30.

R)Arabic (el). ii, 30.

R)Phœnician. Corpus Inscriptionum Semiticarum. i, 30.

Babylonian Bilingual Hymns. Research.

Egyptian Archaeology. — ?

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Ph.D., Leipzig, '78; Privatdoc., Göttingen, '80; Prof. of Assyriology in the same, '83; Hon. Curator of Coll. Oriental Antiq. in U. S. Nat. Mus. — Co-ed. Contributions to Assyriology and Comp. Semitic Philology, and Assyriological Library, Oriental history, archaeology, philology, grammar, etc.

Hebr. Prose Composi. i, 30.

Comp. Hebr. Gram. i, 30.

Crit. Interp. of Messianic Psalms. i, 15. Minor Prophets. i, 15.

Biblical Aramaic Gram. Interp. of Daniel and Ezra. i, 30.

Ethiopic (Bk. of Baruch). i, 30.

Arabic Prose Composi. i, 30.

Sumerian Hymns and Psalms. i, 30.

C. JOHNSTON, Assoc. in Semitic Langs.

Ph.D., Johns Hopkins, '94.

Hebr. (2d year). Bks. of Samuel. i, 30.

Hebr. at sight. i, 30.

Syriac (Roediger's Chrestomathy). i, 30.

Arabic for beginners. i, 30.

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Assyrian for beginners. ii, 30.

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MR. ROSENAU, Instr. in Semitic Langs.

A.B., Univ. of Cincinnati, '88.
Post-Biblical Hebr. ii, 30.

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A.B., McGill Univ., '80, and A.M. '81; B.D., Yale, '83; Ph.D., Leipzig, '86; Instr. and Adj. Prof. of Semitic Langs. and N. Test. Greek, Lane Sem., '86-'91.

- *Hosea and Jeremiah. ii, 17, O.-F.
Job. ii, 17, F.-Jun.
- *Assyrian. Selections from Hist. Inscriptions. ii, 34, O.-Jun.
Arabic Gram. and Reading. ii, 34, O.-Jun.
Seminary in Sumerian. ii, 17, O.-F.
Acts of Apostles, I. Corinthians, Akh-mim Frag. of Gospel of Peter. ii, 17, O.-F.
O. Test. Prophets, Josephus and Apocrypha, Maccabees, Bk. I. ii, 17, F.-Jun.

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A.B., Harv., '84; Instr. Sem. Langs., same, '87-'8; Ph.D., Strasburg, '90; Assoc. Prof. Sem. Lang. and Lit., Brown. — Arabic proverbs.

- *Hebrew Accidence. iv, 24, S.-F.
Hebrew Syntax. iv, 12, Mar.-My.
Isaiah. ii, 12, Mar.-My.
Aramaic. iv, 12, Mar.-My.
Arabic. iv, 24, D.-My.
Assyrian. iv, 12, S.-N.
*Oriental History. iv, 24, S.-F.

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A.B., Northwestern, '84, and A.M., '87; B.D., Garrett Bibl. Inst., '87; Ph.D., Yale, '91; Instr. in Greek, Garrett Bibl. Inst., '84-'7; in Greek and Hebrew, '87-'91; Asst. Prof. of Hebrew, '91-4.

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Comp. Gram. Semit. Langs. i-ii, 30. Assy. Gram. ii, 30.

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Babylonian Contract Tablets of Persian Period. i, 15, O.-F.

Interp. Assy. and Babylonian Prayers and Hymns. i, 15, F.-My.

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Turk. Gram. and Interp. Texts. i, 30.

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A. B., Univ. of Pa., '81, and A.M., '83; Ph.D., Leipzig, '84; Lectr. Semit. Langs., '85-6.—Gram. Works Abu Zakarija Hajjug, *Jewish Gram. of Mid. Ages, Semit. subjs.*

Pub. and Private Life of Anc. Hebrews. Lects. —?

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D. G. LYON.

*Hebrew (el). iii, 30.

*Hist. of Israel. ii, 30.

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Syriac (el), readings in Gospels. i, 32.

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Book of Revelation. i, 32.
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A.B., Yale, '74; Ph.D., Hanover, Indiana, '86; D.D., Yale, '91. — Old Testament subjects.

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A.B., Haverford, '76, and A.M., '79; Ph.D., Johns Hopkins, '80; Fel. in Gk., Johns Hopkins, '77-80; Asst. Prof. Gk. and Lat., Haverford, '80-2; Asst. Prof. Anc. Langs., Williams, '92-5. — Gk. prose compos., various contrib. to *Am. Jour. Philology*.

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B) Pindar, and lects. on Gk. Lyric Poetry. iii, O.-Jun.

B) Greek Dialects, Ionic and Æolic. i, O.-F.

B) Seminar. Gk. Gram. i, F.-Jun.

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A.B., U. of Vt., '80; Ph.D., Harvard, '85; Instr., Harvard, '88-'9; Prof. of Greek, Harvard, '89-'95; Prof. Am. School at Athens, '92-'3; Prof. of Greek, '95.

*Lects. on Greek Lit. iii, O.-Jun.

B) *Pausanias, with lects. on Monuments of Olympia and Attica. ii, O.-Jun. (With Dr. Young.)

B) Seminar. Interpretation. i, O.-F.

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Fel. in Gk., '88-'91; Ph.D., Columbia, '91. — Erchia and Gargettus, Attic Demes, Excav. at Sicyon.

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Fel. in Class. Philol., '81-4; Ph.D., Columbia, '83; Tutor in Latin, '82-6; Acting Prof. of Latin, '86-8; Prof. of Latin, '88. — Ed. Students' Series Latin Classics, Ed. Harper's Dictionary of Classical Lit. and Antiquities, Ed. Internat. Encyclopedia.

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- B) Satires of Persius. ii, O.-F.
- B) Tragic Frags. of Ennius. ii, F.-Jun.
- B) Latin Bibliography. i, O.-Jun.
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[Aristotle, Politics. iii, 15, F.-My.]

[Thucydides. ii, 30.]

[Æschylus. —?]

[Aristotle, Poetics, with parts of the Rhetoric. —?]

[Judicial Process of the Athenian Courts. —?]

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[Latin Syntax. ii-iii, 15, F.-My.]

Cicero's Exposition of Greek Philosophy. iii, 15, O.-Ja.]

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A.B., Oberlin, '63; Ph.D., Leipzig, '70; Prof. Greek and Lat., Univ. Tenn., '66-8, '70-3; Tutor in Greek, Harv., '73-4; Prof. Anc. Langs., Cincinnati, '74-9; Prof. Greek, Yale, '79-80. — Ed. (with others) Harv. Stud. in Class. Philol., Greek Gram. and Metres, Early Latin, etc.

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*[Hist. of Latin Poetical Lit. iii, 30.]

[Cicero's Correspondence. ii-iii, 15, O.-Ja.]

*Plautus, Lucretius, Horace's Satires and Epistles. iii, 30.

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A.B., Univ. of Toronto, '83, and A.M., '86; Fel. in Classics, Univ. Col., Toronto, '83-4; Graduate Scholar, Johns Hopkins, '86-7, and Fellow, '87; Lect. in Greek and Anc. Hist., Univ. Col., Toronto, '87-'93; Classical Examiner in Univ. of Toronto and Trinity Univ.

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[Absent on leave, 1896-7.]

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- [Italic Dialects (lects. and interp. of selected inscripts). iii, 17, F.-Jun.]
- *[Lat. Writing. ii, 17, O.-F.; iii, 17, F.-Jun.]
- [Cicero's Letters. iii, 17, O.-F.]
- *[Letters of Pliny. iii, 17, O.-F.]

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Prof. of Greek Lang. and Lit., Princeton, '55-9. — History of Huguenots, Modern Greece.

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*Juvenal and Martial. ii, 11.

*[Cicero, *De Natura Deorum*. Schools of Philos. at Rome. Lects. —?]

*[Lucretius. —?]

*[Virgil, *Georgics*, or *Persius*. —?]

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*Teachers' Course. Gram., Composi. i, 36.

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Plato's Republic. ii, 30.

Agamemnon of Æschylus. ii, 30.

ALFRED GUDEMAN, Asst. Prof. of Class. Philol.

A.B., Columbia, '83; Ph.D., Berlin, '88; Reader in Class. Philol., Johns Hopkins, '90-3. — Tacitus de Oratoribus, Outlines of Class. Philol.

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Interp. of Plautus Trinummus. i, 15, F.-My.

Hist. of Rom. Lit. of Republic. i, 15, O.-F.

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A.B., Harvard, '90, A.M., '91, and Ph.D., '93.

Greek Lyric Poetry before Pindar. ii, 30.

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A.B., Bowdoin, '51; Ph.D., Göttingen, '59; Instr. in Mod. Langs., Bowdoin, '59-'60; Prof., '60-3; Prof. of Greek, '63-9.

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A.B., Princeton, '62.

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Plato. Life and Works. i, 32.

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A.B., Princeton, '74. — Ed. Xenophon's Memorabilia, Symposium, Libri Socratici.

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*[Roman Oratory. ii, 16, S.-Ja.]

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CLEMENT L. SMITH.

*Plautus, Lucretius, Horace's *Satires* and *Epistles*. iii, 30.

*[Hist. of Latin Poetical Lit. iii, 30.]

*Hist. of Latin Prose Lit. iii, 30.

JOHN WILLIAMS WHITE.

*Plato's *Republic*, Aristotle's *Ethics*. iii, 30.

JOHN H. WRIGHT.

*Demosthenes, *Æschines*, *Æschylus*, *Sophocles*, *Aristophanes*. iii, 30.

*Gk. Prose Compos. i, 30.

ALBERT A. HOWARD.

*Suetonius, Pliny, Juvenal, Martial. iii, 30.

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*Practice in Latin Expression and Style. i, 30.

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Aristophanes. i, 12, O.-D.

Thucydides. i, 24, Ja.-Jun.

Plato, Republic. i, 36.

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A.M., Washington and Lee, '76, and LL.B., '77; Litt.D. (hon.), same, '89; Asst. Prof. Math., same, '76-7; Prof. Philos., Washington Univ., St. Louis, '87-'91; Prof. of Latin, Tulane, '91. — Arithmetic, Latin Literature.

Crit. Study of Lucretius. i, 36.

Annals of Tacitus. i, 12, O.-D.

Plautus and Terence. i, 24, O.-Mar.

Hist. Study of Latin Forms. i, 24, O.-Mar.

Cicero's Letters. i, 12, Ja.-Mar.

Cicero's De Officiis. i, 12, Mar.-Jun.

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B. ès S., Univ. of Paris, '85; A.B., Columbia, '88; Prize Fel. in Science, '88-9; Prize Fel. in Mod. Langs., '89-'90; Ph.D., Columbia, '91; Instr. in Ger., Barnard, '90-1; Tutor in Romance Langs. and Lits., Columbia, '90-4; Instr., '94. — Trans. from Ger., Fr., and Ital. classics.

B)*Old French. ii, O.-F.

B)*French Chroniclers of the Middle Ages. ii, F.-Jun.

Columbia — Continued.

LOUIS M. A. LOISEAUX, Tutor in Romance Langs. and Lits.

B)*Hist. of Lit. Criticism in France. i, O.-Jun.

CURTIS H. PAGE, Tutor in French.

*French Rhetoric. iii, O.-My.
Hist. of Fr. Lit. in 17th Cent. iii, O.-My. (With Mr. Loiseaux.)
Hist. of Fr. Poetry in first half of 19th Cent. i, O.-My.

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A.B., Princeton, '64; A.M., '67; Asst. Prof. of Romance, '70-2; Ph.D., Princeton, '74; Prof. of Spanish and Italian Langs., '72-81. — French Lit. of 17th and 19th Cents., Italian Popular Lit., Mediæval Lit.

*Literature of 17th Cent. iii, 32.
*[Fr. Society in 17th Cent. ii, 32.]
*Precursors of French Romantic School. ii, 32.

Seminary. French Society of 17th Cent. Precieux Movement. ii, 32.

*Origin and Devel. of French Lang. and Lit. to 17th Cent. Lects. i, 32.
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HANS L. W. OTTO, Instr. in French.

Reife-Prüfung, Primus omnium, Royal Fr. College, Berlin, '84; Prüfung für das höhere Lehraut, Berlin, '90; Instr. in French, Wisconsin, '92-3. — Folklore essays, Portuguese and Brazilian, Mod. Philol. in Finland.

Romance Sem. Phonetics, Early French and Provençal Texts. ii, 32.
*Spanish Gram. and Reading. ii, 32.

*Readings from Cervantes, Calderon and Recent Spanish Lit. ii, 32.

*Portuguese Gram. and Reading. ii, 32.

CONSTANT P. VERGAUVEN, Instr. in Fr.

B.S., Univ. of Ghent, '81, and D.Sc., '83.

*French Convers. and Composi. ii, 32.

*Readings from French Class. Drama. i, 32.

*Modern French Prose. ii, 32.

JACOB SEGALL, Instr. in French.

B.L., B.S., Univ. of Sassy, '84; Fel. in Romance Langs., Columbia, '92-3, and Ph.D., '93.

*Recent French Drama. i, 32.

*Novelists of French Romantic School. ii, 32.

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*French Lit. in 16th Cent. iii, 30.

*[French Lit. in 17th Cent. iii, 30.]

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CHARLES ELIOT NORTON [see 11].

Lit. and Fine Arts in Italy during Mid.
Ages and Renaissance, with special
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Prof. of French.

*Gen. View of French Lit. iii, 30.

*[French Lit. in 19th Cent. iii, 30.]

*Voltaire and his Contemporaries. iii,
15, O.-Ja.

*French Drama in 18th Cent. iii, 15,
F.-My.

EDWARD S. SHELDON, Prof. of Romance
Philology.

A.B., Harv., '72. — Ed. *Dialect Notes*, Ger.
gram., dialects, Eng. names of letters of
alphabet, etc.

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[Old French Lit. National Epic
Poetry, the Chansons de Geste. ii-
iii, 30.]

[Early Spanish. Poem of the Cid.
Spanish Lit. to 15th Cent. iii, 30.]

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The Oldest Texts. ii-iii, 30.

[Low Latin. ii, 15, O.-Ja.]

Old French Dialects, with special ref.
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[The French Element in English. i-ii,
30.]

PHILIPPE B. MARCOU, Instr. in Romance
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lin, '88.

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15th Cent. to the Present. iii, 30.

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'86-9; Instr., '89. — Fr. and Ital. gram. and
compos., phonetics.

*Gen. View of French Lit. (conducted
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Ital. Lit. of 13th and 14th Cents.
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glione. Syntax and Prose Composi-
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LL.D., Wake Forest, '91. — Ed. *Mod. Lang.*
Notes.

Sem. Marie de France. MSS. ii, 30.

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Romance Club. i, 30.

Popular Latin. i, 30.

A. RAMBEAU, Assoc. Prof. of Rom. Lang.

A.B., Wittenberg, '71; Ph.D., Marburg, '77;
Staats-Examen, '79; Lect. Eng. Lit. and Hist.
Gram., '78-9; Professor, '88; Assoc. in Rom.
Langs., Johns Hopkins, '93. — On grammar,
phonetics, methodology, etc.

French Phonetics. i, 15.

Old French Philology. iii, 30.

Fr. Physiological Phonetics. i, 30.

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Ph.D., Johns Hopkins, '93.

Origins of Italian Prose. i, 30.

Readings in Early Italian Prose. i, 30.

Italian Philology. ii, 30.

C. C. MARDEN, Instr. in Rom. Langs.

Instr., Mich., '90-1; Ph.D., Johns Hopkins,
'94.

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study based on the Escorial MSS.
i, 30.

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Old Span. Readings. i, 30.

Johns Hopkins — Continued.

F. DE HAAN, Instr. in Rom. Langs.

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Provençal. i, 30.

Span. Novel of 19th Cent. i, 30.

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Ph.D., Johns Hopkins, '95.

Carlovingian Epic. ii, 30.

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Ph.D., Johns Hopkins, '87.

French Lyric Poetry, and Mod. French
Drama. 20 lects. in each, Feb., '97.*Dramas of Lope and Calderon. ii,
34, O.-Jun.

PAUL R. DE PONT, Asst. Prof. of French.

A.B., Univ. de Paris, '56; B.S., same, '57.

*Fr. Dramatists of 18th Cent. iii, 17,
O.-F.*Romantic Move. in Fr. Lit. ii, 17,
F.-Jun.Satirical Spirit in Fr. Lit. ii, 17,
F.-Jun.

MORITZ LEVI, Instr. in French.

A.B., Mich., '87.

*Fr. Lit. of 17th Cent. ii, 17, F.-Jun.
Old French. ii, 34, O.-Jun.**LELAND STANFORD, JR.**

1 Graduate Student, 1895-6.

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A.B., Hope, '82; Ph.D., Johns Hopkins, '88;
Prof. of French, Bowdoin, '89-'90; Prof. Rom.
Langs., Indiana, '90-1; Assoc. in Rom. Langs.,
Johns Hopkins, '91-3. — Various arts. in *Mod.*
Lang. Notes, Pubs. of Mod. Lang. Assn., and
Zeitschrift f. Rom. Phil.

*Intro. to Old French. ii, 32.

French Hist. Gram. ii, 32.

Philological Exercises. ii, 32.

Physiological Phonetics. ii, 32.

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mance Langs. and Lits.A.B., Mich., '68, and A.M., '71; Ph.D., Leip-
zig, '77; Instr., Mich., '68-'79; Prof. of Mod.
Langs., same, '79-'85.

*Fr. Philos. Writers. i, 17, O.-F.

*Teacher's Course in Fr. ii, 17, F.-Jun.

*Voltaire, Montesquieu, Rousseau.
iii, 17, F.-Jun.

Fr. Lit. of 16th Cent. ii, 17, O.-F.

*Dante, Div. Com. and Vita Nuova.
ii, 34, O.-Jun.**MINNESOTA.**

12 Graduate Students, 1895-6.

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A.B., Yale, '74.

Old French. —?

Italian. Dante's Inferno. —?

Spanish. Edgren's Grammar. —?

Knapp's Mod. Spanish Readings. —?

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WILLIAM K. GILLET, Prof. of French and
Spanish Langs. and Lits.

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ii, 30.Beginning and Growth of French
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i, 30.

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GEORGE CANTE, Prof. of French Lit.

B. ès L.; Lic. en Droit, Univ. of France.

French Lit. in 19th Cent. ii, 30.

French Dramatists in 19th Cent. ii, 30.

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EMILY F. WHEELER, Prof. of Romance
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Graduate Scholar in Rom. Langs., Bryn
Mawr, '87-8; Prof. of Fr. and Ger., Ohio
Univ., '84-6; Prof. of Fr. and Ger., Al-
legheeny Col., '86-7; Prof. of Romance
Langs., Northwestern, '91.*Lit. of Renaissance and Classic Drama.
iii, 36.

*Lit. of 18th Cent. ii, 25.

*Med. Lit. Roland. Old French. ii, 11.

*Mod. Lit., 1830-90. ii, 36.

Old French, 9th to 14th Cent. i, 24.

*Italian. Dante. iii, 36.

*Spanish. iii, 36.

*Fr. Lit. of 17th Cent. ii, 32.

*[Fr. Lit. of 19th Cent. ii, 32.]

Dante and his Age. ii, 32.

*The Inferno. ii, 16, F.-My.

*The Purgatorio and Paradiso. ii, 32.

E. S. LEWIS, Asst. Prof. of Romance
Langs.Ph.D., Johns Hopkins, '92; Fel. and Asst. in
Rom. Langs., same, '90-2.—Guernsey, its
People and Dialect, Devel. of Intervocalic
Labials in Rom. Langs., Old Fr. Philol.,
Physiological Phonetics.

*Modern Spanish. ii, 32.

*Old French Readings. ii, 32.

Old Fr. Philology. ii, 32.

Physiological Phonetics. ii, 16, S.-Ja.

Fr. Dialects. ii, 16, F.-My.

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Langs. and Lits.B.S., Univ. of Pa., '76; LL.B., '82, and A.M.,
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burg, '92.—Span. Pastoral Romances.

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Lais. i, 30.

Old French Lit. i, 30.

Old Provençal. i, 30.

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trarch. i, 30.Spanish. Comedias of Miguel Sanches.
i, 30.**PRINCETON.**

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Hugo's Hernani, Augier's La Pierre de
Touche, Sainte Beuve.

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F. C. DE SUMICHRAST.

*Gen. View of Fr. Lit. iii, 30.

*[Fr. Lit. in 19th Cent. iii, 30.]

*Voltaire and his Contemporaries. iii,
15, O.-Ja.*French Drama in 18th Cent. iii, 15,
F.-My.

*[French Lit. in 17th Cent. iii, 30.]

French Tragedy in 16th and 17th Cents.
iii, 30.

P. B. MARCOU.

*Span. Lit. of 16th and 17th Cents.
Cervantes, Lope de Vega, Calderon.
Composi. iii, 30.

Radcliffe — Continued.

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- *Origins of Romanticism in France. ii, 30.
- *Lit. Criticism in France during 19th Cent. ii, 30.

C. H. C. WRIGHT.

- *Rise of Classicism in Fr. Lit. The *Pléiade*. ii, 30.

TULANE.

5 Graduate Students, 1895-6.

ALCÉE FORTIER, Prof. of Romance Langs. and Lits.

Litt.D., Washington and Lee, and Univ. of Va.; Prof. French Lang. and Lit., Univ. of La., '80-4; Prof. French Lang. and Lit., Tulane, '84-'94; Prof. Romance Langs. and Lits., '94. — *On French Lit.*, Ed. Corneille, Molière, Napoleon, Folk Tales, etc.

- Old French. ii, 36.
- Spanish. ii, 24.
- Phonetics. ii, 24.
- Middle French. ii, 12.
- Modern French Lit. ii, 24.
- Italian. ii, 24.

VANDERBILT.

4 Graduate Students, 1895-6.

THOMAS A. JENKINS, Instr. in Rom. Langs.

A.B., Swarthmore, '87; Ph.B., Univ. of Pa., '88; Ph.D., Johns Hopkins, '94. — *Papers before Mod. Lang. Assn. and Central Mod. Lang. Conf.*

- Lects. on Old French Morphology and Phonology. i, 32.

[One of the two following courses.]

- French National Epic. iii, 32.
- Breton Romances in France. iii, 32.

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ANNE R. PUGH, Assoc. Prof. of Romance Languages.

A.B., Kansas State Univ., '91; A.B., certificate, Harvard Annex, '92; A.M., Kansas State Univ., '93.

- *French Lit. of 18th Cent. iii, 35.
- *French Lit. of 19th Cent. iii, 35.
- *Intro. Studies in Fr. Philology. ii, 35.
- *Intro. Studies in Old Fr. Lit. i, 35.
- [Fr. Lit. of 13th and 14th Cents. ii, 35.]
- [Fr. Lit. of 16th Cent. i, 35.]
- *Middle Age Romance Lit., in English. iii, 35.

MARGARET H. JACKSON, Instr. in Italian, and in Hist. of Greek Sculpture.

- *Hist. of Italian Lit. in 13th and 14th Cents. iii, 35.
- *[Hist. of Italian Lit. in 19th Cent. iii, 35.]
- *Dante. *Divine Comedy*, in Eng. iii, 17, F.-Jun.

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F. M. WARREN, Prof. of Romance Languages.

Ph.D., Johns Hopkins, '87; Instr. in Mod. Langs., W. R. Col. and Adelbert, '81-3; Instr. and Assoc. in Mod. Langs., Johns Hopkins, '86-'91. — *Hist. Romance Lit., Hist. of Novel.*

- *17th Cent. French Lit. iii, 16, S.-F.
- *French Renaissance Lit. iii, 17, F.-Jun.
- *[Romantic School in France. iii, 16, S.-F.]
- *[18th Cent. in France. iii, 17, F.-Jun.]
- *Spanish. iii, 16, S.-F.
- *[Italian (cl). iii, 16, S.-F.]
- *[Italian (adv). iii, 17, F.-Jun.]

M. N. COLVIN, Prof. of Romance Languages.

Ph.D., Zürich, '88; Prof. of Romance Langs., Col. for Women, W. R. U., '93.

- Intro. to French Phonology. i, 33.
- Provençal. iii, 33.

6. *INDO-IRANIAN, AND COMPARATIVE, LANGUAGES, ETC.* 45

Old French Texts. ii, 33.
 *Old Spanish. iii, 16, S.-F.
 *Old Italian. iii, 17, F.-Jun.

WISCONSIN.

3 Graduate Students, 1895-6.

WILLIAM F. GIESE, Asst. Prof. of Romance Languages.

A.M., Harvard, '89; Instr. in French and Spanish, Cornell, '91-3.

*French Lit., 16th to 19th Cent. Lects., with collateral reading. ii, 36.

LUCY M. GAY, Instructor in French.

B.L., Wisconsin, '82.

Philol. Course in Oldest Fr. Lit. ii, 36.
 [Old French Texts. ii, 36.]

YALE.

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Mod. Lang. Club meets monthly.

JULES LUQUIENS, Prof. of Mod. Langs.

D.B., Univ. Lausanne, '66; Ph.D., Yale, '73; Prof. Mod. Langs., Mass. Inst. Tech. — The Avesta, French readers, French grammar.

Early Fr. Lit. and Hist. Gram. ii, 32.
 French Lit. of 16th Cent. ii, 32.
 French Critics and Criticism in 19th Cent. i, 32.
 *Fr. Gram. and Composi. (adv). ii, 32.
 *French Lit. of 17th Cent. i, 32.
 *French Lit. of 18th Cent. i, 32.

H. R. LANG, Asst. Prof. Rom. Langs.

Ph.D., Strassburg, '90. — Spanish gram., proverbs, Portuguese lang. and lit., French philology.

Provençal Lang. and Lit. ii, 32.
 *Spanish (el). iii, 32.
 *Spanish Lit., 16th-17th Cents. ii, 32.
 *Italian (el). iii, 32.
 *Dante's Life and Works. i, 32.
 *Petrarch. i, 32.

R. L. TAYLOR, Instr. in French.

A.B., Hamilton, '82.

*Syst. Readings in Fr. Lit. of 19th Cent. ii, 32.

A. G. CAMERON, Asst. Prof. of French.

A.B., Princeton, '86, and Ph.D., '91; Prof. French and Ger., Miami Univ., '88-'91. — Ed. French texts.

Molière's Life and Works. i, 32.

6. INDO-IRANIAN, AND COMPARATIVE, LANGUAGES AND LITERATURES.

[With Languages not otherwise classified. See also 1 to 5.]

BARNARD.

2 Graduate Students, 1895-6.

[See Columbia Courses marked B.]

BRYN MAWR.

3 Graduate Students, 1895-6.

HERMANN COLLITZ [see 4].

Lects. on Comp. Philology, and Philological Seminary. i, 30.

PAUL E. MORE [see 2].

Beginners' Sanskrit. i, 30.
 Sanskrit (adv). i, 30.
 Pāli. i, 30.

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CARL D. BUCK, Assoc. Prof. of Sanskrit and Indo-European Comp. Philol.

A.B., Yale, '86, and Ph.D., '89; Asst. Prof. Sanskrit and Indo-European Comp. Philol., '92-4.

*Sanskrit (el). iv, 12, O.-D.
 Avestan and Old Persian. iv, 12, Ja.-Mar.
 Intro. to Comp. Philol. iv, 6, O.-N.
 Outlines of Comp. Gram. of Greek and Latin. iv, 6, N.-D.

Chicago — Continued.

Exercises in Greek and Latin Comp.
Gram. iv, 6, Au.-S.; also iv, 12,
Ja.-Mar.
Greek Dialects. iv, 12, Ap.-Jun.
Seminar. Phonology and Morphology.
—? Ap.-Jun.

A. W. STRATTON, Asst. in Sanskrit and
Comp. Philol.

A.B., Toronto, '87; Ph.D., Johns Hopkins,
'95.

Outlines of Comp. Gram. of Greek and
Latin. iv, 6, Jul.-Au.

*Sanskrit (el). iv, 12, Jul.-S.

*Sanskrit. iv, 12, Ja.-Mar.

*Intro. to Vedic. iv, 6, Jul.-Au.; also
iv, 12, Ap.-Jun.

Çakuntala and Intro. to Prākṛit. iv,
12, Ap.-Jun.

Brahmanas and the Epic. i, 36,
O.-Jun.

Pāli (el). iv, 12, O.-D.

Vedic Seminar. —? O.-Mar.

FULTON J. COFFIN [see 7].

Hindi. iv, 12, O.-D.

B)Comp. Iranian Grammar. i, F.-Jun.
B)Zoroaster and Buddha. i, O.-Jun.

ABRAHAM YOHANNAN, Prof. of Oriental
Languages.

A.M., Columbia, '95; Grad. of Col. of Urmi,
Persia, and of Gen. Theol. Sem., N. Y. City.

B)Modern Persian. ii, O.-Jun.

B)Armenian. i, F.-Jun.

GEORGE R. CARPENTER, Prof. of Rhet-
oric and Eng. Composition.

A.B., Harvard, '86; Fel. in Comp. Lit., same,
'86-8; Instr. in Eng., same, '89-'90; Assoc.
Prof. of Eng., Mass. Inst. of Technology,
'90-3. — Rhetoric.

B)Types of Mediæval and Renaissance
Lit. iii, O.-Jun.

BRANDER MATTHEWS [see 3].

[Epochs of the Drama, Gk., Latin,
Spanish, Eng., Fr., Ger. ii, O.-Jun.]

Dramatists of the 19th Century.
ii, O.-Jun.

[Molière and Eng. Comedy. i, O.-Jun.]

Evolution of the Essay. i, O.-Jun.

*Hist. of Modern Fiction. ii, O.-Jun.

CORNELL.

10 Graduate Students, 1895-6.

*The Bopp library of about 2,500 vols. relating
to Oriental lang. and lit. and Comp. Philol.
Sem. room with ref. lib. of 2,500 vols. 1
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Philol. and Class. Archaeol.*

BENJAMIN I. WHEELER [see 2].

*Intro. to Science of Language. i, 32.

*Comp. Gram. of Greek and Latin. iii,
32.

Sanskrit. Readings from Rig-Veda.
ii, 12, O.-D.

[Balto-Slavic Gram. ii, 9, Ap.-Jun.]

[Gothic Grammar. ii, 20, Ja.-Jun.]

GEORGE P. BRISTOL [see 2].

Sanskrit (el). ii, 32.

COLUMBIA.

7 Graduate Students, 1895-6.

[Courses marked B are open to Barnard Students.]

A. V. WILLIAMS JACKSON, Prof. of Indo-
Iranian Langs.

Ph.D., Columbia, '86; Lect. on Mazdean Re-
ligion, Harvard, '92. — A Hymn of Zoroaster,
Yasna 31, Avestan alphabet, grammar, etc.

B)*Sanskrit (el). iii, O.-Jun.

B)*Avestan (el). ii, O.-Jun.

B)Sanskrit (adv). ii, O.-Jun.

B)Avestan (adv). ii, O.-Jun.

B)Pāli (el). i, O.-Jun.

B)Old Persian Cuneiform Inscriptions.
i, O.-F.

B)Pahlavi. i, F.-Jun.

B)Sanskrit Lit. i, O.-F.

6. INDO-IRANIAN, AND COMPARATIVE, LANGUAGES, ETC. 47

HARVARD.

24 Graduate Students, 1895-6.

[Courses marked R are open to Radcliffe Graduate Students.]

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ARTHUR R. MARSH, Asst. Prof. of Comp. Lit.

A.B., Harv., '83; Prof. of Eng. Lit., Univ. of Kans., '85-8. — Arts. on Fr., Ital. and Span. lit., Assoc. Ed. Johnson's Encyclopædia.

R) Hist. of Latin Lit. in Middle Ages, and its Relations to Classic and Mod. Lit. iii, 30.

[Origin and Devel. of Historical Epic Poetry in Mediæval Europe. iii, 15, O.-Ja.]

Legendary and Poetic Material of Celtic Origin, and its Treatment in Med. Narrative Poetry. iii, 15, F.-My.

*Med. Lit. in the Vulgar Tongues, with special ref. to Infl. of France and Provence. iii, 30.

CHARLES R. LANMAN, Prof. of Sanskrit.

Ph.D., Yale, '73; Fel. and Assoc., Johns Hopkins, '76-'80. — Ed. Am. Philol. Assn. Transactions, Noun Inflect. in Veda, Ed. Sansk. Reader, var. papers on Oriental philols. and customs, Ed. Harvard Oriental Series.

*Sanskrit (el). iii, 30.

*Sanskrit (second course). iii, 15, O.-Ja.

R) Intro. to the Vedas. iii, 15, F.-My.

R) Pāli (el). Legendary Hist. of Buddha, Avidure and Santike Nidānas. ii-iii, 30.

Pāli (adv). Sacred Books of Buddhism. ii-iii, 30.

R) Adv. Study of Sansk. Works, with use of MSS. Research. —?

C. H. GRANDGENT [see 5] AND **H. C. G. VON JAGEMANN** [see 4].

Intro. to Linguistic Science. Phonetics. Principles of Change in Lang. iii, 15, F.-My.

FRED. N. ROBINSON, Instr. in English.

A.B., Harv., '91, A.M., '92, and Ph.D., '94.

Intro. to Celtic Philol. Old Irish. iii, 15, O.-Ja.

Hist. of Celtic Lit. Middle Irish. iii, 15, F.-My.

LEO WIENER, Instr. in Slavic Langs.

Gymnasium, Warsaw, '80; Univ. of Warsaw, '81; Polytechnic, Berlin, '82; Asst. Prof. of Mod. Lang., Mo. State Univ., '92-5. — Var. papers on Germanic, Romance and Slavic Philol., in *Am. Journal of Philol.*, *Mod. Lang. Notes*, and *Zivaja Starina* (St. Petersburg).

*Russian. iii, 30.

[Applications for a course in Polish and other Slavic Langs. will be considered.]

JOHNS HOPKINS.

35 Graduate Students, 1895-6.

MAURICE BLOOMFIELD, Prof. of Sanskrit and Comp. Philol.

Fellow at Johns Hopkins, '78-9; Ph.D., '79; Assoc., '81-3; Assoc. Prof., '83-'91. — Interpretation of the Veda, Buddhism, Greek, and Indo-European Grammar.

Vedic Seminary. The Lit. of the Atharva-Veda. i, 30.

Adv. course in the Avesta. i, 30.

Intro. to Els. of Vedic Philol. i, 30.

Sanskrit (el). ii, 30.

Sanskrit (adv). ii, 30.

Els. of Linguistic Science. i, 30.

Hist. of Indo-European Consonants, with spec. ref. to Greek, Latin, Teutonic and Sanskrit. i, 30.

LELAND STANFORD, JR.

0 Graduate Students, 1895-6.

WALTER MILLER [see 2].

Sanskrit Drama. Kalidāṣa Çakuntala. ii, 32.

Sanskrit (el). ii, 32.

MICHIGAN.

11 Graduate Students, 1895-6.

W. H. WAIT [see 2].

Sanskrit Gram. and Reader. iv, 36,
O.-Jun.

GEORGE HEMPL [see 3].

Linguistic Science. ii, 17, F.-Jun.
Phonetics. ii, 17, F.-Jun.**MINNESOTA.**

2 Graduate Students, 1895-6.

JOHN S. CLARK [see 2].

Sanskrit Gram. and Reader. iv, 36.

NEW YORK.

6 Graduate Students, 1895-6.

F. H. STODDARD [see 3].

Anglo-Saxon (intro). ii, 30.
Anglo-Saxon (adv). ii, 30.
English Philology. ii, 30.

FREDERIC T. COOPER [see 2].

Sanskrit (el). ii, 30.
Sanskrit (adv). ii, 30.**NORTHWESTERN.**

6 Graduate Students, 1895-6.

JAMES T. HATFIELD [see 4].

*Science of Language. i, 30.

PENNSYLVANIA.

3 Graduate Students, 1895-6.

Pott Lib. of Philol., 4,000 vols.

MORTON W. EASTON [see 3].

Çakuntāla and the Veda. ii, 30.
Sanskrit Gram., with Reading. ii, 30.

DANIEL G. BRINTON, Prof. of Am. Archaeol. and Linguistics.

A.B., Yale, '58, and A.M., '60; M.D., Jeff. Col., '60; LL.D., same, '91; Sc.D., Univ. of Pa., '93. — Gen. Anthropol. and Ethnol. subjects.

Gen. Struct. of Am. Langs. ii, 30.

Traits of Linguistics of N. and S. America. ii, 30.

Gram. Struct. of Algonkian, Uto-Aztecan, Maya, and Kechua Stocks. ii, 30.

Reading in Nahuatl Tongue. ii, 30.

PRINCETON.

1 Graduate Student, 1895-6.

S. R. WINANS [see 2].

*Sanskrit Gram. and Reading. ii, 32.
Sanskrit and Comp. Gram. ii, 32.

C. MARTIN [see 1].

Siamese. ii, 32.

E. Y. ROBBINS [see 2].

Avestan and Old Persian. ii, 32.

RADCLIFFE.

4 Graduate Students, 1895-6.

[See Harvard Courses marked R.]

C. R. LANMAN.

*Sanskrit. Sounds and Inflections. Easy Prose and Verse. iii, 15, O.-Ja.

*Sanskrit. Classic Texts in Lanman's Reader. iii, 15, F.-My.

A. R. MARSH.

*Mediaeval Lit. in the Vulgar Tongues, with special ref. to Infl. of France and Provence. iii, 30.

MR. WIENER.

*Russian Gram., Reading and Composi. iii, 30.

VANDERBILT.

8 Graduate Students, 1895-6.

H. C. TOLMAN [see 2].

Sanskrit. Gram. and Readings. iii, 32.
Sanskrit Lit. Lects. i, 8.
Veda, Chamdagya Upanishad, Sanskrit
Composi. iii, 32.
Persian Cuneiform Inscriptions. i, 16.

WELLESLEY.

1 Graduate Student, 1895-6.

HELEN L. WEBSTER, Prof. of Comp.
Philology.

Ph.D., Zürich, '89.

*Sanskrit. iii, 35.
*Intro. to Science of Lang. iii, 17,
S.-Ja.
*Intro. to Science of Comp. Philology.
iii, 17, F.-Jun.
*Comp. Gram. of Greek and Latin.
iii, 35.
Comp. Gram. of the Teutonic Langs.
iii, 35.

WESTERN RESERVE.

1 Graduate Student, 1895-6.*

LEMUEL S. POTWIN, Prof. of Eng. Lang.
and Lit.

A.B., Yale, '54; Tutor in same, '58-'60; D.D.,
same, '86; Prof. of Latin, West. Reserve and
Adelbert, '71-'92. — Etymology, Hist. Eng.
Lang.

Lit. Sources of Eng. Lit. iii, 16, S.-F.

SAMUEL B. PLATNER [see 2].

Sanskrit. iii, 33.

WISCONSIN.

8 Graduate Students, 1895-6.

A. G. LAIRD [see 2].

*Sanskrit (el). ii, 36.
Sanskrit (adv). i, 36.
*[Comp. Gk. Gram. ii, 36.]
*Comp. Lat. Gram. (with Prof. Hen-
drickson). ii, 18, S.-F.

EDWARD T. OWEN, Prof. of French
Lang. and Lit.

A.B., Yale, '73; Prof. of French, California,
'86-7. — Notes on Fr. books.

[Correspondence of Thought and Lan-
guage. i, 18.]

YALE.

12 Graduate Students, 1895-6.

E. W. HOPKINS, Prof. of Sanskrit and
Comp. Philol.

A.B., Columbia, '78; Ph.D., Leipzig, '81;
Asst. in Latin and Instr. in Zend, Columbia,
'81-4; Prof. of Greek, Sanskrit and Comp.
Philol., Bryn Mawr, '84-5. — Religions of
India.

[On leave of absence for 1896-7.]

HANNS OERTEL, Asst. Prof. of Comp.
Philology.

A.M., Yale, '88, and Ph.D., '90. — Jaiminiya
Upanisad Brahmana.

Sanskrit (el). iii, 32.
Sanskrit (adv). iii, 32.
Sanskrit (3d year). ii, 32.
Linguistics. ii, 32.
Phonetics. i, 32.

A. S. COOK [see 3].

Theories of Poetry. —?

E. H. SNEATH [see 7].

Philosophy and Literature. i, 32.

II. PHILOSOPHY, HISTORY, ECONOMICS, AND THE FINE ARTS.

7. PHILOSOPHY AND ETHICS.

[With Comparative Religion.]

BARNARD.

3 Graduate Students, 1895-6.

[See Columbia Courses marked B.]

BROWN.

20 Graduate Students, 1895-6.

E. BENJAMIN ANDREWS, President, and
Prof. of Moral and Intellectual Philos.

Pres. of Denison, '75-9; Prof. Pract. Theol.,
Newton Theol. Inst., '79-'82; Prof. Hist. and
Pol. Econ., Brown, '83-8; Prof. Pol. Econ.
and Pub. Finance, Cornell, '88-9.—Hist. of
the U. S.

*Practical Ethics. iii, 21, Ja.-Jun.

*[Casuistry. i, 21, Ja.-Jun.]

[Christian Religion. i, 10, Ap.-Jun.]

WALTER G. EVERETT, Assoc. Prof. of
Philos.

A.B., Brown, '85, A.M., '88, and Ph.D., '95;
Instr. Gk., same, '89-'90; Instr. Latin, '90-5.

Theoretical Ethics. iii, 12, S.-D.; also
ii, 11, Ja.-Mar.

Philos. of Religion. ii, 21, Ja.-Jun.

Hist. of Gk. Philos. iii, 12, S.-D.

Hist. of Med. and Mod. Philos. iii,
11, Ja.-Mar.

E. B. DELABARRE [see 8].

*Course in Authors. iii, 33.

BRYN MAWR.

2 Graduate Students, 1895-6.

1 Fellowship, \$525.

D. S. MILLER, Assoc. in Philos.

Fel., Clark, '89-'90; Morgan Fel., Harv.,
'90-1; Walker Fel., '91-2; A.B., and A.M.,
'92; Ph.D., Halle, '93.

Recent Philosophic Theories. ii, 30.

[Transcendental Idealism. ii, 30.]

*British Philos. of 17th and 18th Cents.
iii, 30.

*[Continental Philos. of 17th Cent. iii,
30.]

*[Problems in Philos. of Nature. ii,
O.-F.]

*[Æsthetics. ii, F.-Jun.]

CALIFORNIA.

10 Graduate Students, 1895-6.

2 Fels. in Philosophy.

GEORGE H. HOWISON, Mills Prof. of
Intell. and Moral Philos. and Civil
Polity.

A.M., LL.D., Marietta.

[Hegel's Logic. iv, 32.]

Philos. of Plato. iv, 32.

*Philos. of Kant. ii, 32.

*Ethics and Civil Polity. ii, 32.

EVANDER B. MCGILVARY, Instr. in Logic.
A.M., Princeton.

*Inductive Logic. Criticism of Mill.
iv, 16.

*[General Logic (adv). iv, 16.]

*Hume and Kant. Critique of Sceptical Idealism. iv, 16.

CHICAGO.

— ? Graduate Students, 1895-6.

3 Fels. in Philosophy; 1 in Comp. Religion.

JOHN DEWEY, Head Prof. of Philos.

A.B., Vermont, '79; Fellow, Johns Hopkins, '83-4; and Ph.D., '84; Prof. of Philos., Minn., '88-9; Prof. of Philos., Mich., '89-'94; Head Prof. of Philos., Chicago, '94-5.—Psychology, Outlines of Ethics, Study of Ethics, Leibniz.

[Logic of Ethics. —?]

[Psychological Ethics. —?]

Political Ethics. —?

[Seminar. Hist. of Logic. —?]

[Seminar. Philos. of Hegel. —?]

Evolution of Morality. iv, 12, O.-D.

Hist. of Political Ethics. iv, 12, Ja.-Mar.

19th Cent. Ethical Thought. iv, 12, Ap.-Jun.

Seminar. Theory of Logic. iv, 36, O.-Jun.

JAMES H. TUFTS, Assoc. Prof. of Philos.

A.B., Amherst, '84; Instr. in Math., same, '85-7; D.B., Yale, '89; Instr. in Philos., Mich., '89-'91; A.M., Amherst, '90; Asst. Prof. of Philos., Chicago, '92; Ph.D., Freiburg, '92.—Windelband's Hist. of Philos., Kant's Teleology.

*Hist. of Philos. iv, 24, Ja.-Jun.

Hist. of Aesthetic Theory. iv, 12, Mar.-Jun.

[Seminar. Philos. of Kant. —?]

[Seminar. Eng. Philos. —?]

GEORGE H. MEAD, Asst. Prof. of Philos.

A.B., Harv., '88; Instr. in Philos., Mich., '91-3; Asst. Prof., same, '93-4.

Philos. of Concepts of Matter and Motion in Physical Sciences. iv, 12, Ap.-Jun.

Seminar. Psychol. of Mediaeval Thought. ii, 24, O.-Mar.

Seminar. Psychol. of Kant's Theory of Knowledge. iv, 6, Jul.-Au.

*Hist. of Greek Philos. iv, 12, O.-D.

G. S. GOODSPEED [see 1].

Primitive Buddhism. iv, 6, Jul.-Au.

Comparative Theology, Institutions. ii, 12, O.-D.

[Religions of the Indo-European Peoples. iv, 24, Ja.-Jun.

JOHN H. BARROWS, Professorial Lect. on Comparative Religion.

A.B., Olivet, '67, and A.M., '70; D.D., Lake Forest, '81.

Relations of Christianity to Other Religions. i, 8, My.-Jun.

EDMUND BUCKLEY, Docent in Comp. Religion.

A.B. and A.M., Michigan, '84; Prof. of Philos., Doshisha, Kyoto, '86-'92; Fel. in Comp. Relig., Chicago, '93-4; Ph.D., same, '94.

[Religions of China and Japan. iv, 12, Jul.-S.; also O.-D.

Outline Hist. of Religion. iv, 12, O.-D.

Science of Religion. iv, 12, Ja.-Mar.

Philos. of Religion. iv, 12, Ap.-Jun.

FULTON J. COFFIN, Fellow in Comp. Religion.

Modern Sects of Hinduism. iv, 12, Ap.-Jun.

COLUMBIA.

107 Graduate Students, 1895-6.

[Courses marked B are open to Barnard Students.]

NICHOLAS M. BUTLER, Prof. of Philos. and Education.

A.B., Columbia, '82, A.M., '83, and Ph.D., '84; Univ. Fel. in Philos., '82-5; Asst. in Philos., '85-6; Tutor, '86-9; Adj. Prof., '89-'90; Prof. of Philos., Ethics, and Psychol., and Lect. on Educa., '90-5; Pres. N. Y. Col. for Teachers, '87-'91.—Ed. *Educational Review*.

B) Hist. Intro. to Philos. ii, O.-My. (With Dr. Wilde.)

Columbia — Continued.

- B)[Philos. of Kant and his Successors. ii, O.-My.]
 B)British Philos. from Locke to Spencer. ii, O.-My.
 B)Seminar. Philosophy. i, O.-My.

JAMES H. HYSLOP, Prof. of Logic and Ethics.

A.B., Wooster, '77, and A.M., '79; Ph.D., Johns Hopkins, '87; Prof. Psychol., Bucknell, '88; Tutor in Philos., Columbia, '89-'90; Instr. in Logic and Ethics, '91-5. — Logic, ethics, psychology.

- B)Ethics. ii, O.-My. (With Dr. Wilde.)
 B)[Practical Ethics. ii, O.-My.]
 B)Seminar. Ethics. i, O.-My.
 B)Systematic Ethics. ii, O.-My.

NORMAN WILDE, Assistant.

- B)Hist. of English Ethics. i, O.-My.

CORNELL.

21 Graduate Students, 1895-6.

Courses here announced and those in q belong to the Susan Linn Sage School of Philosophy. 10 officers of instruction. Kant coll. of 100 vols.; complete Spinoza coll. of 500 vols.; psychol. lab. of 6 rooms. The School issues the Philos. Review. Monthly Conference of students. 3 Fels., \$500 each, and 6 Grad. Schols., \$300 each.

JAMES SETH, Prof. of Moral Philos.

A.M., Edinburgh, '81; Hon. Sc.D., Columbia; Baxter Scholar, Edinburgh; Ferguson Scholar in Philos.; Prof. of Philos., Dalhousie and Halifax, '89-'92; Assoc. Prof. Nat. Theol., Brown, '93-4; Prof. Philos. and Nat. Theol., Brown, '94-6. — Ethical Principles.

- *Ethics (el). ii, 32.
 *Relations of Morality and Religion. i, 32.
 *Ethics (adv). ii, 32.
 Ethical Sem. ii, 32.

CHARLES M. TYLER, Prof. of Hist. and Philos. of Relig. and Christian Ethics.

A.B., Yale, '55, and A.M.; D.D., same, '92. — Relig. and philos. articles.

- *Hist. of Relig. ii, 32.
 *Applied Ethics. i, 32.

*Philos. of Relig. iii, 32.

Sem. Hist. and Philos. of Religion. ii, 32.

JAMES E. CREIGHTON, Prof. of Logic and Metaphysics.

A.B., Dalhousie, '87; Fel. in Philosophy, Cornell, '88-9; Instr. in Philos., same, '89-'91; Ph.D., same, '92. — Joint Ed. of *Philos. Review*.

- *History of Philosophy. iii, 32.
 *[Logical Theory. ii, 32.]
 *Post-Kantian Idealism. ii, 32.
 Sem. in Mod. Philos. ii, 32. (With Dr. Albee and Mr. Schiller.)

WILLIAM A. HAMMOND, Asst. Prof. of Anc. and Med. Philos.

A.B., Harv.; Ph.D., Leipzig, '91; Instr. in Anc. Philos., Cornell, '91-2. — Notion of Virtue in Plato, Dialogues, Anc. and Med. Philos.

- *Hist. of Ancient and Mediæval Philos. ii, 32.
 *[Dialogues of Plato (Gk). iii, 32.]
 *Aristotle. Nicomachean Ethics. iii, 32.
 Sem. in Ancient and Med. Philos. ii, 32.

ERNEST ALBEE, Instr. in Psychol. and Hist. of Philos.

A.B., Univ. of Vt.; Ph.D., Cornell, '94. — Beginnings of Eng. Utilitarianism.

- *Leibniz's Philos. Works, Hume's Treatise of Human Nature, Kant's Critique of Pure Reason. iii, 32.
 *Spinoza's Ethics. iii, 12, O.-D.

FERDINAND C. S. SCHILLER, Instr. in Logic and Metaph.

A.M., Oxford. — The Riddles of the Sphinx.

- *Rapid Reading of Ger. Philos. i, 32.
 *Philos. of Evolutionism, with esp. ref. to Spencer. iii, 32.
 *[German Pessimism. ii, 32.]
 *[Modern Realism. iii, 32.]

DAVID IRONS, Lect. in Philos.

A.M., St. Andrews, '91; Ferguson Scholar in Philos., '92-4; Ph.D., Cornell, '94. — Contrib. to *Mind*, *Philos. Review*, *Psychol. Review*.

- *Recent Metaph. Theories. i, 32.

HARVARD.

35 Graduate Students, 1895-6.

[Courses marked R are open to Radcliffe Graduate Students.]

Graduate Philos. Society meets fortnightly. 2 Fels. of \$500 and \$450, preferably awarded to students of this dept.

CHARLES C. EVERETT, Prof. of Theology.

A.B., Bowdoin, '50, and A.M.; S.T.D., same, '70, and Harv., '74; LL.D., Bowdoin, '94.—Science of Thought, Ethics for Young People.

- *Psychol. Basis of Relig. Faith. i, 30.
- *Content of Christian Faith. iii, 30.
- *Comparative Religion. ii, 30.

GEORGE H. PALMER, Prof. of Nat. Relig., Moral Philos. and Civil Polity.

A.B., Harv., '64, and A.M., '67; LL.D., Mich., '94; Tutor in Greek, '70-3; Asst. Prof. Philos., '73-'83. — Trans. of the Odyssey, education, etc.

- *Ethics. iii, 30.
- R) Ethical Sem. Comparison of Ethical Ideals. ii, 30.

WILLIAM JAMES [see 8].

- *Philos. of Nature. Fundamental Conceptions of Nat. Science, with special ref. to Evolution and Materialism. iii, 30.
- R) Metaphysical Sem. Philos. of Kant. ii, 30.

JOSIAH ROYCE, Prof. of Hist. of Philos.

A.B., Cal., '75; Ph.D., Johns Hopkins, '78; Instr. in Eng., Cal., '78-'82; Instr. in Philos., Harv., '82-5; Asst. Prof. Philos., '85-'92.—Metaphysics, Philos. of Relig., Hist. Mod. Philos.

- *Logic (adv). iii, 30.
- *Metaphysics. Fundamental Prob. of Theoret. Philos. iii, 30.

CHARLES M. BAKEWELL, Instr. in Philos.

A.B., Cal., '89; A.M., same, '91, and Harv., '92; Ph.D., Harv., '94.

- *Hist. of Ancient Philos. Thales to Aristotle. iii, 30.
- *Hist. of Eng. Philos. Hobbes to Hume. iii, 30.

[Descartes, Spinoza, Leibniz. iii, 15, O.-Ja.]

JOHNS HOPKINS.

10 Graduate Students, 1895-6.

E. H. GRIFFIN, Prof. of Hist. of Philos.

A.B., Williams, '62, and A.M., '65; Prof. of Latin, Williams, '72-'81; Prof. of Rhetoric, '81-6, and Mark Hopkins Prof. of Intellectual and Moral Philos., '86-9; D.D., Amherst, '80; LL.D., Princeton, '88.

- Modern Philosophy. Descartes to Kant. i, 30.
- Modern Ethical Theories. Fort, 30.

LELAND STANFORD, JR.

—? Graduate Students, 1895-6.

DAVID S. JORDAN, Pres. of the Univ.

M.S., Cornell, '72; Instr. in Botany, same, '71-2; Prof. of Nat. Hist., Lombard, '72-3; M.D., Indiana Med. Col., '75; Prof. of Biology, Butler, '75-9; Ph.D., same, '78; Prof. of Zoology, Indiana, '79-'85; LL.D., Cornell, '86; Asst. U. S. Fish Com., '77-'91; Pres. Indiana Univ., '85-'91.—Various publications.

- *Bionomics. Laws of Life. iii, 32.

EDWARD H. GRIGGS, Prof. of Ethics.

A.B., Indiana, '89, and A.M., '90; Instr. in Eng. Lit., same, '89-'91; Prof. Gen. Lit., '92-3.

- *Dante. Divine Comedy. ii, 14, S.-D.
- *Goethe. Faust. ii, 18, Ja.-My.
- *Modern Eng. Ethical Philos. iii, 18, Ja.-My.
- Seminary in Ethical Theories. ii, 14, S.-D.
- Seminary in Hist. Morals. ii, 18, Ja.-My.

MICHIGAN.

5 Graduate Students, 1895-6.

N. B. — Announcements of this dept. are subject to change.

ALFRED H. LLOYD, Asst. Prof. of Philos.

A.B., Harv., '86, A.M., '88, and Ph.D., '93.

- *Hist. of Philos. iv, 34, O.-Jun.
- Kant. iii, 17, O.-F.

Michigan — Continued.

- [Spinoza. iii, 17, F.-Jun.]
 Hegel. iii, 17, F.-Jun.
 * [British Ethics. ii, 17, O.-F.]
 * Political Philos. ii, 17, O.-F.
 Ethics. i, 17, F.-Jun.
 * Philos. of Religion. ii, 17, F.-Jun.

GEORGE REBEC, Instr. in Philos.

- Ph.B., Mich., '91; Instr. in Eng., same, '91-3.
 * Ancient Ethics. ii, 17, O.-F.
 Plato's Republic. ii, 17, F.-Jun.
 * Aesthetics. ii, 17, O.-F.
 Relation of Rhetoric to Philos. ii, 17, F.-Jun.

MINNESOTA.

14 Graduate Students, 1895-6.

FREDERICK J. E. WOODBRIDGE, Prof. of Philos.

- A.B., Amherst, '89; Instr. in Philos., Minn., '94-5.
 Pre-Socratic Philos. ii, 36.
 Philosophy of Kant. ii, 36.
 Logic (adv). ii, 36.
 * Hist. of Philosophy. iv, 36.
 * Ethics. iv, 12.
 * Aesthetics. iv, 12.

NEW YORK.

30 Graduate Students, 1895-6.

H. M. MACCRACKEN, Chancellor, and Prof. of Philos.

D.D., Wittenberg, '78; LL.D., Miami, '87; Chancellor, Univ. West. Pa., '80-4; Prof. Philos., N. Y. U., '84; Vice-Chancellor, same, '85-91. — Lives of church leaders, Kant, Lotze, Calvin, Psychology, Church and Problems of Philosophy and Science.

- Hist. of Ancient Philos. ii, 30.
 Hist. of Modern Philos. ii, 30.
 Contemporary Ethics. ii, 30.
 Philosophy of Theism. ii, 30.

SAMUEL WEIR, Prof. of Ethics.

A.B., and B.D., Northwestern, '89; A.M., Illinois Wesleyan, '91; Ph.D., Jena, '95. — Hist. Preparation for Christianity, Christianity as a Factor in Civilization, etc.

- History of Ethics. ii, 30.
 Epistemology. ii, 30.
 Metaphysics. ii, 30.

ADDISON BALLARD, Prof. of Logic.

A.M., Williams, '42; D.D., same, '67; Prof. Latin, Ohio Univ., '47-54; Prof. Rhetoric, Williams, '54-5; Prof. Mathematics, Astronomy and Nat. Philos., Marietta, '55-7; Prof. Christian Greek and Latin, Lafayette, '72-9; Prof. Moral Philos. and Rhetoric, same, '79-94.

- Logic. ii, 30.
 Logic of Christian Evidences. ii, 30.

F. F. ELLINWOOD, Prof. of Comparative Religion.

D.D., N. Y. U., '65; LL.D., same, '94. — Oriental Religions, etc.

- Comparative Religion. ii, 30.
 Comp. Relig. (adv). ii, 30.
 Philosophy of Religion. ii, 30.

NORTHWESTERN.

2 Graduate Students, 1895-6.

GEORGE A. COE, Prof. of Philos.

A.B., Rochester, '84, and A.M., '88; S. T. B., Boston, '87, and Ph.D., '91; Prof. of Philos., Univ. of So. Cal., '89-90; Sleeper traveling Fel., at Berlin, '90-1.

- * Hist. Anc. Philos. iv, 14.
 * Hist. Pre-Kantian Mod. Philos. iv, 12.
 * Hist. Kantian and Post-Kant. Philos. iv, 12.
 * Epistemology and Metaphysics. ii, 36.
 Sem. in Metaphysics. ii, 36.

PENNSYLVANIA.

72 Graduate Students, 1895-6.

1 Scholarship of \$100; 1 Fellowship of \$600.

GEORGE S. FULLERTON, Vice-Provost of the Univ., and Dean of the College; Prof. of Intell. and Moral Philos.

A.B., Univ. of Pa., '79, and A.M., '82; D.B., Yale, '83; Instr. in Philos., '83-5; Adj. Prof. Philos., '85-7; Ph.D. (hon.), Muhlenberg. — Theory of Knowledge, Hist. of Philos., Philos. of Theism, Identity.

[Hist. of Anc. and Med. Philos. ii, 30.]
Hist. of Mod. Philos. ii, 30.

WILLIAM R. NEWBOLD, Asst. Prof. of Philos.

A.B., Univ. of Pa., '87; Instr. in Lat., '89-'91; Ph.D., same, '91; Lect. on Philos., '90-4.
— Characteristics of Belief, Hypnotism.

[Hist. of Ethical Theories. ii, 30.]
Anal. of Ethical Theories. ii, 15, O.-F.
Factors of Conduct. ii, 15, F.-My.

EDGAR A. SINGER, JR., Senior Fel. in Philos.

B.S., Univ. of Pa., '92; Ph.D., same, '94.
German Idealism. —?

PRINCETON.

110 Graduate Students, 1895-6.

Coll. on Aristotle and his Philos., 300 vols.

F. L. PATTON, Pres., Prof. of Bibl. Instr., and Prof. of Ethics and Philos. of Religion.

*Ethics. ii, 16, S.-Ja.
*Evid. of Christianity. i, 16, F.-My.
*Theism. ii, 32.
Theoretical Ethics. i, 16, S.-Ja.

C. W. SHIELDS, Prof. of Harmony of Science and Revealed Religion.

A.B., Princeton, '44; D.D., same, '61; LL.D., same.— *Philosophia Ultima, or Science of the Sciences, Christian Philos., Evid. of Chris., church ritual.*

*Harmony of Science and Religion. ii, 16, F.-My.
Hist. and Logic of Sciences. ii, 16, F.-My.

A. T. ORMOND, Prof. of Mental Science and Logic.

A.B., Princeton, '77; Ph.D., same.— *Basal Concepts in Philos.*

*[Hist. Anc. Philos. ii, 16, S.-Ja.]
*Hist. Mod. Philos. ii, 16, S.-Ja.
*[Hist. Philos. Descartes to Kant. ii, 16, F.-My.]

*Hist. Philos. since Kant. ii, 16, F.-My.

*Induction, and Theory of Logic. ii, 16, F.-My.

*Metaphysics, and Theory of Knowledge. ii, 16, S.-Ja.

*Outlines of Philos. ii, 16, F.-My.
Selected Topics in Philos. ii, 32.
Mod. and Contemp. Philos. Seminary. ii, 32.

J. G. HIBBEN, Asst. Prof. of Logic.

A.B., Princeton, '82; Ph.D., same.

*Theory of Prob., and Symbolic Logic. ii, 16, S.-Ja.

RADCLIFFE.

2 Graduate Students, 1895-6.

[See Harvard Courses marked R.]

WILLIAM JAMES.

*Philosophy of Nature. iii, 16, O.-Ja.

G. H. PALMER.

*Ethics. iii, 30.

JOSIAH ROYCE.

*Logic (adv). iii, 30.

*Metaphysics. iii, 30.

[Only one of these two courses given, 1896-7.]

H. C. BIERWIRTH.

*Kant and Schopenhauer. iii, 15, F.-My.

C. M. BAKEWELL.

*History of Anc. Philos. Thales to Aristotle. iii, 30.

TULANE.

0 Graduate Students, 1895-6.

BRANDT V. B. DIXON, Prof. of Philos. and Ethics, Pres. of H. Sophie Newcomb College for Women.

A.M., Cornell; LL.D., Southwestern Univ.

Ethics. —? 32.

History of Philos. —? 32.

VANDERBILT.

4 Graduate Students, 1895-6.

COLLINS DENNY, Prof. of Mental and Moral Philos.

A.B., Princeton; B.L., Univ. of Va.; A.M., Princeton.

Formal Logic. iii, 8, O.-N.

Induction. iii, 5, N.-D.

Theory of Morals. iii, 5, D.-Ja.

Hist. of Philos. iii, 5, F.-My.

Ethics (el). iii, 12.

WELLESLEY.

1 Graduate Student, 1895-6.

ANNE E. MORGAN, Prof. of Philos.

A.B., Oberlin, '66, and A.M., '69.

*Philos. of Religion. iii, 35.

MARY S. CASE, Assoc. Prof. of Psychol. and Hist. of Philos.

A.B., Mich., '84.

*Hist. of Gk. Philos. iii, 17, S.-Ja.

MARY W. CALKINS [see 8].

*Greek Philosophy. iii, 35.

*[German Philosophy. iii, 35.]

*British and Ger. Philos. of 17th and 18th Cents. iii, 35.

ELIZA RITCHIE, Instr. in Philos.

B.L., Dalhousie, '87; Ph.D., Cornell, '89.

*Hist. of Mod. Philos. iii, 17, F.-Jun.

*Philos. Seminary. Ethical Systems of Aristotle, Spinoza, and Kant. iii, 35.

WESTERN RESERVE.

6 Graduate Students, 1895-6.

M. M. CURTIS, Prof. of Philosophy.

A.B., Hamilton, '80; D.B., Union Theol. Sem., '83; A.M., Hamilton, '83; Ph.D., Leipzig, '90. — Locke's Ethical Philos.

*Greek Philos. and its Relation to Rise of Christianity. iii, 16, S.-F.

*British Philos. from Bacon to Hume. iii, 16, S.-F.

Philos. of Spencer. iii, 17, F.-Jun.

Philos. of Kant. iii, 17, F.-Jun.

*Intro. to Philos. iii, 17, F.-Jun.

*Intro. to Hist. and Philos. of Religion. iii, 17, F.-Jun.

H. A. AIKINS, Prof. of Philosophy.

Ph.D., Yale, '91; Instr. in Univ. Southern Cal., '88; Lect. on Hist. of Philos., Yale, '90-1; Prof. Logic and Philos., Trinity Col., N. C., '91-3; Hon. Fel., Clark, '92-3. — Hume.

*Problems in Philos. and Psychology. iii, 16, S.-F.

*Hist. of Philos. iii, 16, S.-F.

Hist. of Philos. ii, 17, F.-Jun.

Theory of Knowledge. ii, 16, S.-F.

*Philos. Seminary. iii, 17, F.-Jun.

WISCONSIN.

5 Graduate Students, 1895-6.

JOHN W. STEARNS, Prof. of Philos. and Pedagogy.

A.B., Harv., '60, and A.M., '64; Prof. Latin, Chicago, '65-'74; LL.D., Chicago, '74; Prof. Pedagogy, Wis., '85-8.

Hist. Greek Philos. iii, 18, F.-Jun.

Philos. Mod. Science. ii, 18, F.-Jun.

FRANK C. SHARP, Asst. Prof. of Philos.

A.B., Amherst, '87; Ph.D., Berlin, '92. — *Æsthetic Elements in Morality.*

Theory of Cognition. iii, 36.

Readings in Ger. Philos. ii, 18, F.-Jun.

*Ethics (adv). iii, 18, S.-F.

*Applied Ethics. ii, 18, S.-F.

YALE.

30 Graduate Students, 1895-6.

G. T. LADD, Prof. of Philosophy.

A.B., West. Res., '64; A.M., Yale, '81, and West. Res.; D.D., West. Res., '81; LL.D., same, '95; Prof. Mental and Moral Philos., Bowdoin. — *Theology, Physiological Psychology, Philosophy.*

Kant. Seminary. ii, 32.

Modern Pantheism and Pessimism. ii, 32.

*Ethics. ii, 32.

W. F. BLACKMAN, Prof. of Christian Ethics.

A.B., Oberlin, '77; D.B., Yale, '80; Ph.D., Cornell, '93.

Christian Ethics. ii, 32.

G. M. DUNCAN, Prof. of Philosophy.

A.B., Univ. City N. Y., '81, and A.M.; D.B., Yale, '84.—Philos. of Leibnitz.

Discussions in Philosophy. i, 32.

*Hist. of Modern Philos. ii, 32.

[Philosophy of Hegel. i, 32.]

E. H. SNEATH, Asst. Prof. of Philos.

A.B., Lebanon Valley, '81, and A.M., '84; D.B., Yale, '84, and Ph.D., '89.—Ed. Philos. of Reid, Ethical series.

Philosophy and Lit. i, 32.

*Hist. of Mod. Philos., mainly British. ii, 32.

*Philos. Anthropology. ii, 32.

ARTHUR FAIRBANKS, Instr. in Comp. Relig.

A.B., Dartmouth, '86; Ph.D., Freiburg, '90.—Ethics, esp. Greek.

History of Religion. ii, 32.

Comp. Religion (adv). i, 32.

[Beginnings of Religion. ii, 12, O.—D.]

[Semitic Religion. ii, 20, Ja.—Jun.]

T. C. STEARNS, Lect. on Hist. of Philos.

A.B., Yale, '86; A.M., Univ. City of N. Y., '92.

Greek Philosophy. ii, 32.

E. F. BUCHNER [see 8].

Hist. of Kantian Philos. ii, 32.

Philos. of Evolution. — ?

Philos. of Early Church Fathers. — ?

8. PSYCHOLOGY AND PEDAGOGICS.

BARNARD.

1 Graduate Student, 1895-6.

[See Columbia Courses marked B.]

BROWN.

11 Graduate Students, 1895-6.

E. B. DELABARRE, Assoc. Prof. of Psychology.

A.M., Harv., '89; Ph.D., Freiburg, '91.

*Psychol. Lab. iii, 10, Ap.—Jun.

Psychol. Experiments. i, 23, S.—Mar. Seminary. iii, 33.

WALTER B. JACOBS, Assoc. Prof. of Pedagogy.

A.B., Brown, '82, and A.M., '85; Instr. in Pedag., '94-6.

*Hist. of Educa. Theories and Institutions. iii, 12, S.—D.

*Institutes of Pedagogy. iii, 11, Ja.—Mar.

*Practical Pedagogy. iii, 10, Ap.—Jun. Sem. in Pedagogy. ii, 33.

BRYN MAWR.

— ? Graduate Students, 1895-6.

D. S. MILLER [see 7].

*Psychol., chiefly of Intellect, Emotion, and Will. iii, F.—Jun.

LIGHTNER WITMER, Lect. in Experimental Psychology.

A.B., Univ. of Pa., '88; Asst. in Exper. Psychol., '90-1; Ph.D., Leipzig, '92; Asst. Prof. Exper. Psychol., Univ. of Pa., '92-5.

*Physiological and Exper. Psychol. ii, O.—F.

CALIFORNIA.

16 Graduate Students, 1895-6.

ELMER E. BROWN, Prof. of Science and Art of Teaching.

Ph.D., Halle.

Child-life. Sem. i, 32.

*Theory of Education. iv, 16.

*Special Problems in Education. Sem. ii, 32.

California — Continued.

THOMAS P. BAILEY, Asst. Prof. of Science and Art of Teaching.

Ph.D., South Carolina.

Biological Aspects of Pedagogy. ii, 16.

CHICAGO.

— ? Graduate Students, 1895-6.

JAMES R. ANGELL, Asst. Prof. of Exper. Psychol.

A.B., Mich., '90, and A.M., '91; Instr. in Exper. Psychol., Minn., '93-4.

Seminar. Psychol. in Relation to Philos. — ? Ap.-Jun.

*Exper. Psychol. (training course). iv, 36, O.-Jun.

Exper. Psychol. (training course). iv, 24, O.-Mar.

Exper. Psychol. (research). iv, 36, O.-Jun.

GEO. H. MEAD [see 7].

*Comp. Psychol. iv, 12, Ja.-Mar.
Methodology of Psychology. iv, 12, Ja.-Mar.

WM. I. THOMAS [see 10].

Folk Psychology. — ? O.-Mar.

JULIA E. BULKLEY, Assoc. Prof. of Pedagogy.

Grad. Fort Edward Collegiate Inst., '67.

*General Pedagogy. iv, 12, O.-D.
Pestalozzi and Herbart. Ja.-Mar.

Eng. Pedagogy, Ap.-Jun.

*Seminar. iv, 36, O.-Jun.

CHARLES H. THURBER, Assoc. Prof. of Pedagogy.

Ph.B., Cornell, '86; A.M., Haverford, '90; Instr. in French, Cornell, '91-3; Prof. of Pedagogy, Colgate, '93-5; Director Divis. of Child Study, Dept. of Public Instr., N. Y., '95. — Asst. to Ed.-in-Chief, Johnson's Cyclopædia.

Methods of Child Study. iv, 12, Ja.-Mar.
School Organiza. and Admin. iv, 12, Jul.-S.

EARL BARNES, Prof. of Pedagogy (Leland Stanford).

Special Topics in Child Psychology. iv, 6, Jul.-Au.

Hist. of Educa. up to Reformation. iv, 6, Jul.-Au.

CLARK.

29 Graduate Students, 1895-6.

Two Fels. of \$600 each, two of \$400 each; two Schols. of \$200 each, two of \$100 each.

G. STANLEY HALL, Pres., and Prof. of Psychology.

A.B., Williams, '67, and A.M., '70; Ph.D., Harv., '78; Lect. in Williams and Harvard, '80; Prof. of Psychology, Johns Hopkins, '81-8; LL.D., Mich., '88, and Williams, '89.

Hist. of Psychol. and Philos. iv, 35, O.-Jun.

Genetic Psychol. i, 35, O.-Jun.

Systematic Psychol. i, 35, O.-Jun.

Education. i, 35, O.-Jun.

Conference. iii-hr. sessions, weekly.

Students' lect. course. i, 20, Ja.-Jun.

EDMUND C. SANFORD, Asst. Prof. of Psychology.

A.B., California, '83; Fel., Johns Hopkins, '87; Ph.D., same, '88; Instr. in Psychology, same, '88; Instr. in Psychology, Clark, '89-92. — Co-ed. *Amer. Jour. Psychol.*

Psychological Practicum. Lab. and lects. iv, 35, O.-Jun.

Psychological Seminary. i, 35, O.-Jun.

Original Research. Lab.

Normal Psychol. Lect. and demonst. i, 35, O.-Jun.

Pedagogical Tests and Measurements. Lab. i, 18, O.-F.

WILLIAM H. BURNHAM, Instr. in Pedagogy.

A.B., Harv., '82; Instr., Wittenberg, '82-3; Fel., Johns Hopkins, '85-6; Ph.D., same, '88; Instr. in Psychology, same, '88-9.

Organiza. of Schools in Europe. i, 35, O.-Jun.

Mod. Educa. Movement begun by Rousseau and Pestalozzi. i, 17, F.-Jun.

Hygiene of Instruction and School Anthropometry. i, 18, O.-F. Conference. Weekly.

A. F. CHAMBERLAIN, Lect. in Anthropology.

A.B., Toronto, '86, and A.M., '89; Fel. in Mod. Langs., Univ. Col., Toronto, '87-'90; Fel. in Anthropol., Clark, '90-2, and Ph.D., same, '92.

General and Special Anthropology, Ethnology, and Ethnography, with particular ref. to Psychol., Pedagog., Anthropol., and Child-Study. ii, 35, O.-Jun.

ADOLF MEYER, Docent in Psychiatry.

M.D., Zürich, '92; Docent in Neurology, Chicago, '93-5; Pathologist and Neurologist, Worcester Lunatic Hospital, '95.

Psychiatric Problems, with Clinical Demonst. 10 clinics of 2 hrs. Anthropological Course. — ?

COLUMBIA.

40 Graduate Students, 1895-6.

[Courses marked B are open to Barnard Students.]

N. M. BUTLER [see 7].

B)Intro. to Psychol. iii, O.-My. (With Prof. Hyslop, Prof. Cattell, Prof. Starr, Dr. Farrand, Mr. Strong, and Dr. Wilde.)

B)Hist. of Educa. Theories and Institutions. i, O.-My.

B)Principles of Educa. i, O.-My.

B)Seminar. Education. i, O.-My.

JAMES MCK. CATTELL, Prof. of Experimental Psychology.

A.B., Lafayette, '80, and A.M., '83; Ph.D., Leipzig, '86; Fellow, Johns Hopkins, '82-3; Asst., Leipzig, '83-6; Lect., Univ. of Cambridge, '88; Lect., Univ. of Pa., '88; Prof. of Exper. Psychol., same, '88-'91. — Co-ed. *Psychological Review and Science*, Mental Measurement, Psychol.

B)Exper. Psychol. ii, O.-My.

B)Exper. Psychol. (adv). ii, O.-My.

B)Mental Measurements. ii, O.-My.

MOSES A. STARR, Prof. in Col. Phys. and Surg.

B)Diseases of the Mind and Nervous System. i, O.-My.

LIVINGSTON FARRAND, Instr. in Physiolog. Psychol.

A.M., Princeton, '91; M.D., Columbia, '91.

B)Physiological Psychol. iii, O.-My.

B)Abnormal and Pathological Psychol. i, O.-F.

CHARLES A. STRONG, Lecturer.

A.B., Rochester, '84; Instr. in Philos., Cornell, '87-9; Docent, Clark, '90-1; Assoc. Prof. Philos., Chicago, '91-5; Assoc. Prof. Psychol., same, '95-6.

B)General Psychol. ii, O.-My.

WALTER L. HERVEY, Pres. of Teachers' College.

B)*Seminar. Coördination and Relative Value of Studies. i, O.-My.

B)*[Institutes of Educa. i, O.-F.]

B)*Methods of Linguistic Teaching. i-ii, F.-My.

B)*Methods of Math. Teaching. i-ii, F.-My. (With Prof. Woodhull.)

JOHN F. WOODHULL, Prof. of Educa. in Teachers' College.

B)Methods of Teaching Science. iii, O.-My.

CHARLES A. BENNETT, Prof. of Educa. in Teachers' College.

B)Manual Training in El. and Secondary Schools. ii, O.-My.

JOHN F. REIGART, Prof. of Educa. in Teachers' College.

B)General Method of Psychol., with observations. iv, O.-My.

B)Psychol. (adv). i-ii, O.-My.

B)Methods of Teaching Hist. in Secondary Schools. i-ii, O.-My.

Columbia — Continued.

CLARENCE E. MELENEY, Prof. of Educa. in Teachers' College.

- B) Methods of Teaching in El. Schools. ii, O.—My.
 B) School Supervision and Management. iii, O.—My.

FRANK T. BAKER, Prof. of Educa. in Teachers' College.

- B) Methods of Teaching Eng. in Secondary Schools. ii, O.—F.

CORNELL.

16 Graduate Students. 1895-6.

Lib. of witchcraft and diabolism, 1,500 vols. and pams., 50 MSS.

SAMUEL G. WILLIAMS, Prof. of Pedag.

A.B., Hamilton, '52, and A.M., '55; Ph.D. (hon.), same; Prof. of Geology, Cornell, '79-'86. — Applied Geology, Hist. of Mod. Educa.

- *Institutes of Educa. iii, 32.
 *School Supervision. i, 9, Mar.—Jun.
 *Hist. of Educa. ii, 32.
 Pedagogical Conference. ii, 32.
 Pedag. Sem. ii, 32.

EDWARD B. TITCHENER, Asst. Prof. of Psychol. and Dir. of Psychol. Lab.

A.B., Oxford, '89; Ph.D., Leipzig, '92; A.M., Oxford, '94; Extension Lect. in Biol., Oxford, '92. — Leipzig School of Exper. Psychol., Chronometry, Psychol. optics, Am. Ed. *Mind*.

- *Exper. Psychol. (With Mr. Pillsbury.) iii, 32.
 *Reading of Psychol. in French, Ger., or Italian. i, 32.
 Psychological Sem. (With Mr. Pillsbury.) ii, 32.

CHARLES G. WAGNER, Special Lect. on Mental Diseases.

A.B., Cornell, '80; M.D., Col. of Physicians and Surgeons. — Supt. State Hospital for the Insane, Binghamton, N. Y.

- *Mental Derangement. i, 9, Ap.—Jun.

HARVARD.

37 Graduate Students, 1895-6.

[Courses marked R are open to Radcliffe Graduate Students.]

Psychol. Lab. specially endowed. Ref. lib. of several hundred vols. Pedagogical Club.

WILLIAM JAMES, Prof. of Psychology.

M.D., Harv., '69; Ph.D. et Litt. D., Padua, '93; Instr. Anat. and Physiol., '72-6; Asst. Prof. Physiol., '76-80; Asst. Prof. Philos., '80-5; Prof. Philos., '85-9. — Gen. psychol., esp. space and time perception, habit, instinct, hypnotism, mediumistic phenom., belief, ethics.

Abnormal Psychol. Types of insanity, exceptional mental phenom. iii, 15, O.—Ja.

JOSIAH ROYCE [see 7].

- R) Psychol. Sem. Philos. Problems of Psychol. ii, 30.

E. B. DELABARRE, Assoc. Prof. of Psychol. (Brown).

With James E. Lough, A.M.:

- *Experimental Psychol. ii, 15, O.—Ja.
 R) Psychol. Laboratory. Special investigations.

HUGO MÜNSTERBERG, Prof. of Experimental Psychology.

Ph.D., Leipzig, '85; M.D., Heidelberg, '87; Instr., Freiburg, '88-'91; Asst. Prof., '91-2. — Willenshandlung, Beiträge z. Exper. Psychol., Angaben u. Methoden, etc.

[Absent in Europe.]

Assists advanced students by correspondence.

PAUL H. HANUS, Asst. Prof. of the Hist. and Art of Teaching.

B.S., Mich., '78; Prof. Math., Univ. Col., '79-'86. — Applied Psychol., Hist. of Educa., geom. in gram. schools, math.

- *Hist. Educa. Theories and Pract. ii, 30.
 *Intro. to Educa. Theory. i, 30.
 *[Methods of Teaching Science in El. and Sec. Schools (with other instrs). Ab. ten exercises for each of seven subs.]

- R)*Methods of Teaching Eng., Ger., French, Lat., Greek, Hist. (instr. by var. teachers). Ab. ten exercises in each subj. ii, 30.
 Organiza. and Management of Public Schools and Acad. ii, 30.
 R)Pedag. Sem. Aims and Equipment, etc., more partic. of sec. educa. i, 30.

LELAND STANFORD, JR.

4 Graduate Students, 1895-6.

FRANK ANGELL, Prof. of Psychol.

B.S., Vermont, '78; Ph.D., Leipzig, '91;
 L.H.D., Vermont, '92; Asst. Prof. of Psychol.,
 Cornell, '91-2.

- *Adv. Psychol. ii, 32.
 *Methods of Sensation Measurement.
 i, 32.

EARL BARNES, Prof. of Education.

A.B., Indiana, '90; M.S., Cornell, '91; Prof.
 of Hist., Indiana, '89-'91.

- *Psychol. of Childhood. ii, 32.
 *Seminary. ii, 32.
 Pedag. Psychology. ii, 14, S.-D.

ESTELLE M. DARRAH, Instr. in Education.

A.B., Stanford, '96.

- *Æsthetics of Childhood. ii, 14, S.-D.
 *Educa. in Reformation Period. ii, 18,
 Ja.-My.

MICHIGAN.

5 Graduate Students, 1895-6.

B. A. HINSDALE, Prof. of Sci. and Art of Teaching.

Pres., Hiram, '70-'82. — The scientific, practical, institutional, and administrative aspects of education.

- *Hist. of Educa. iii, 34, O.-Jun.
 *Comp. Study of Educa. Systems. ii,
 17, F.-Jun.
 Gen. Course of Educa. Thought from
 Anc. to Mod. Times. i, 17, F.-Jun.

—————.

- *Exper. Psychol. ii, 34, O.-Jun.
 Lab. research. vi-xv, 34, O.-Jun.

MINNESOTA.

6 Graduate Students, 1895-6.

HARLOW GALE, Instr. in Psychol.

A.B., Yale, '85.

- *Exper. Psychology. Individual Problems. iv, 36.
 *Physiological Psychology. iv, 36.

DAVID L. KEIHLE, Prof. of Pedagogy.

A.M., Hamilton, '64; LL.D., '91.

- *Philosophy of Educa. iv, 12, S.-N.
 *Methodology. iv, 12, D.-F.
 *Ancient Education. ii, 12, S.-N.
 *School Admin. and System. ii, 24,
 D.-My.

NEW YORK.

5 Graduate Students, 1895-6.

EDGAR D. SHIMER, Prof. of Psychology.

A.B., Muhlenberg, '74, A.M., '77, and Ph.D., '87. — Profession of Teaching, Metaphysical Assumptions, manual training, etc.

- Descriptive and Explan. Psychol. ii,
 30.
 Hist. of Psychology. ii, 30.

CHARLES B. BLISS, Prof. of Exper. Psychology.

Ph.D., Yale, '93. — Investigations in reaction, time, and attention.

- Exper. Psychology. ii, 30.
 Research in Exper. Psychol. ii, 30.

NORTHWESTERN.

0 Graduate Students, 1895-6.

HERBERT F. FISK, Prof. of Pedagogics.

A.B., Wesleyan, '60, A.M., '63, and D.D., '88.

- *Hist. of Education. ii, 25.
 *Principles of Educa. ii, 25.
 *Seminary. ii, 11.

PENNSYLVANIA.

57 Graduate Students, 1895-6.

1 Fellowship of \$600.

WILLIAM R. NEWBOLD [see 7].

Cognition, Thought, and Will. ii, 30.
Psychol. Sem. i, 30.

LIGHTNER WITMER, Asst. Prof. of Psychol.

A.B., Univ. of Pa., '88; Ph.D., Leipzig, '91;
Asst. in Exper. Psychol., '89-'91; Lect. in
Exper. Psychol., '91-3.—*Æsthetics of Pro-*
*portion.*Mod. Psychol. Theory. i-ii, 30.
Selected Themes for Class Exper. i-ii,
30.

Sem. Child Psychol. i-ii, 30.

Lab. Work. ii, 30.

MARTIN G. BRUMBAUGH, Prof. of Pedag.

M.S., Brethren's Col.; A.M., Univ. of Pa.,
'93, and Ph.D., '94; Pres. Brethren's College.

Hist. of Educa. ii, 30.

[Institutes of Educa. ii, 30.]

Seminary. i, 30.

PRINCETON.

10 Graduate Students, 1895-6.

Psychol. Lab. for pract. work. Special ref.
lib. in connection.

W. B. SCOTT [see 17].

*Physiological Psychology. Lects. and
lab. ii, 16, S.-Ja.

J. M. BALDWIN, Prof. of Exper. Psychol.

A.B., Princeton, '84, and Ph.D., '86; Prof.,
Lake Forest, '87-8; Prof., Toronto, '89-'93.—
Co-ed. *Psychological Review*, Ed. Dict. of
Philos. and Psychol., Asst. Ed. Johnson's
Cyclop., general, exper., and child psychology.

*Exper. Psychol. ii, 32.

*General Psychol. (adv). ii, 32.

Exper. Psychol. (research). Lab. vi-
xv, 32.Seminary. Social and Educa. Psychol.
i, 32.H. C. WARREN, Demonstrator in Ex-
per. Psychol.A.B., Princeton, '89, and A.M., '91.—The
Psychological Index, exper. psychol.Theory of Mental Measurements. ii,
16, S.-Ja.**RADCLIFFE.**

6 Graduate Students, 1895-6.

[See Harvard Courses marked R.]

J. E. LOUGH.

*Experimental Psychol. ii, and lab. iv,
15, F.-My.

P. H. HANUS.

*[Intro. to Educa. Theory. Discussion
of Educa. Principles. i, 30.]Organiza. and Management of Public
Schools and Acad. ii, 30.**TULANE.**

0 Graduate Students, 1895-6.

BRANDT V. B. DIXON [see 7].

Psychology. iii, 16.

VANDERBILT.

—? Graduate Students, 1895-6.

COLLINS DENNY [see 7].

Elements of Psychol. iii, 20, O.-F.

Comp. Psychol. iii, 12, Mar.-My.

WELLESLEY.

4 Graduate Students, 1895-6.

MARY W. CALKINS, Assoc. Prof. of
Psychol.

A.B., Smith, '85, and A.M., '88.

*Psychology (adv). iii, 35.

CARLA WENCKEBACH [see 4].

*Hist. of Educa. Theories. Sci. and
Art of Educa. Art of Teaching
and Govt. iii, 35.

WESTERN RESERVE.

o Graduate Students, 1895-6.

H. A. AIKINS [see 7].

*Psychology in Educa. iii, 16, S.-F.

H. E. BOURNE [see 9].

*Educa. since the Renaissance. iii, 17, F.-Jun.

WISCONSIN.

8 Graduate Students, 1895-6.

Laboratory with special facilities for orig. research.

JOSEPH JASTROW, Prof. of Exper. and Comp. Psychology.

A.B., Univ. of Pa., '82; Ph.D., Johns Hopkins.

*Exper. Psychol. 3 lects., lab. iv, 18, F.-Jun.

*Comp. Psychol. ii, 18, F.-Jun.

*[Anthropol. Psychol. i, 18, F.-Jun.]

*[Abnormal Psychol. ii, 18, F.-Jun.]

*Psychol. of Language. i, 18, F.-Jun.

Research in Psychol. —?

Philosophical Sem. Biweekly, N.-My.

JOHN W. STEARNS [see 7].

Problems in Applied Psychology. ii, 18, F.-Jun.

Herbartian Pedagogy. ii, 18, F.-Jun.

School Supervision. ii, 18, S.-F.

YALE.

29 Graduate Students, 1895-6.

G. M. DUNCAN [see 7].

Psychology (adv). ii, 32.

E. W. SCRIPTURE, Instr. in Exper. Psychol.

A.B., Col. City of N. Y., '84; Ph.D., Leipzig, '91; Fellow, Clark, '91-2. — Asst. Ed. *Amer. Jour. Psychol.*, psychol. terminology and methods, etc., educational psychol.

*Physiol. and Exper. Psychol. ii, 32.

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 Assoc. Prof. of Social and Polit. Science, '91-5.

*Princs. of Sociol. iii, 12, S.-D.

*Social Conditions and Probs. iii, 21,
 Ja.-Jun.

Current Social Theory and Practice.
 i, 33.

Sociology. Seminar. Fort.

JAMES Q. DEALEY, Asst. Prof. of Social
 and Polit. Science.

A.B., Brown, '90, A.M., '92, and Ph.D., '95.

Devel. of Social Theory. iii, 12, S.-D.
 Social Philos. iii, 11, Ja.-Mar.

Segregation of Population. iii, 10,
 Ap.-Jun.

ALPHEUS S. PACKARD [see 16].

*Anthropology. iii, 10, Ap.-Jun.

CALIFORNIA.

—? Graduate Students, 1895-6.

BERNARD MOSES [see 9].

*Economic Theory. iv, 16, Ja.-My.

CARL C. PLEHN [see 9].

*Finance and Taxation. iv, 16, Ja.-
 My.

- CHICAGO.

—? Graduate Students, 1895-6.

10 Fellowships.

J. LAURENCE LAUGHLIN, Head Prof. of
 Pol. Econ.

A.B., Harvard, '73; A.M., and Ph.D., '76;
 Instr. in Pol. Econ., same, '78-'83; Asst. Prof.
 Pol. Econ., same, '83-8; Prof. Pol. Econ. and
 Finance, Cornell, '90-2. — Ed. *Your. Pol.
 Econ.*, Elements of Pol. Econ., History of
 Bimetallism in U. S.

*Money and Pract. Economics. iv, 24,
 O.-Mar.

Economic Sem. iv, 36, O.-Jul.

*Unsettled Problems in Economic
 Theory. iv, 12, Ap.-Jul.

ADOLPH C. MILLER, Prof. of Finance.

A.B., California, '87; A.M., Harv., '88; Instr.
 in Pol. Econ., Harv., '89-'90; Lect. on Pol.
 Econ., California, '90-1, and Asst. Prof.-elect
 of Hist. and Polit. Sci., same, '91; Assoc. Prof.
 Pol. Econ. and Finance, Cornell, '91-2; Assoc.
 Prof. Pol. Econ., Chicago, '92-3.

*Princs. of Pol. Econ. v, 12, O.-D.

Pol. Econ. (adv). v, 12, Ja.-Mar.
 Economic and Social Hist. iv, 24,
 Ja.-Jun.

Public Finance. iv, 12, O.-D.

Financial Hist. U. S. iv, 12, Ap.-
 Jun.

Seminar in Finance. iv, 24.

M. PANTALEONI, Prof. of Pol. Econ.

Prof. of Pol. Econ. in Univ. of Naples, Italy.

*Money. iv, 6, Jul.-Au.

*Banking, or Labor. iv, 6, Jul.-Au.

E. R. L. GOULD, Prof. of Statistics.

Fellow, Johns Hopkins, '82-4; Ph.D., same,
 '86; Statistical Expert, U. S. Dept. of Labor,
 '87-'94; Lect. on Social Economics and Sta-
 tistics, Johns Hopkins, since '91.

Hist., Theory, Technique and Analysis
 of Statistics. iv, 12, O.-D.

*Statistics (adv). iv, 12, O.-D.

WILLIAM HILL, Instr. in Pol. Econ.

A.B., Kansas, '90; A.B., Harv., '91, and
 A.M., '92; Fellow, Harv., '91-3; Instr. Pol.
 Econ., same, '93; Tutor, Pol. Econ., Chicago,
 '93-4.

- Princs. of Pol. Econ. v, 12, O.-D.
 Descrip. Pol. Econ. v, 12, Ja.-Mar.
 Tariff Hist. U. S. iv, 12, O.-D.
 *Railway Transportation. iv, 12, Ap.-Jun.
 Oral Debates. iv, 12, Ap.-Jun.
 *Banking. iv, 12, Ja.-Mar.
 Social Econ. iv, 12, Ap.-Jun.
- THORSTEIN B. VEBLEN, Instr. in Pol. Econ.
 A.B., Carleton, '80; Ph.D., Yale, '84; Fellow in Economics and Finance, Cornell, '91-2; Fellow, Chicago, '92-3; Reader in Pol. Econ., same, '93-4; Tutor, same, '94-6.
 *Socialism. iv, 24, O.-Mar.
 *Agriculture. iv, 12, Ap.-Jun.
 Hist. Pol. Econ. iv, 12, O.-D.
 Scope and Method of Pol. Econ. iv, 12, Ja.-Mar.
- A. W. SMALL, Head Prof. of Sociol.
 A.B., Colby, '76, and A.M., '79; Prof. Hist. and Pol. Econ., Colby, '81-8; Reader in Hist., Johns Hopkins, '88-9; Ph.D., same, '89; Pres., Colby, '89-92. — Intro. to Study of Society, Ed. *Am. Journal of Sociology*.
 Seminar. Am. Experience with Govt. Control of Social Coördination. ii, 36, O.-Jun.
 Methodology and Bibliography of Soc. Sci. iv, 12, Ap.-Jun.
 *Problems of Social Statics. iv, 26, O.-Jun.
 Constructive Soc. Philos. State and Govt. iv, 12, O.-D. Society. iv, 12, Ja.-Mar. Division of Social Labor. iv, 12, Ap.-Jun.
- C. R. HENDERSON, Assoc. Prof. of Sociol.
 A.B., Old Univ. of Chicago, '70, and A.M., '73; D.B., Baptist Union Theol. Sem., '73; D.D., same, '83; Asst. Prof. Sociol., Chicago, '92-4. — Dependents, Defectives, and Delinquents, Assoc. Ed. *Am. Journal of Sociology*.
 *Seminar. Organiza. for Promoting Soc. Welfare. ii, 36, O.-Jun.
 *Social Institutions. iv, 6, Jul.-Au.; also iv, 36, O.-Jun.
- E. A. ROSS, Prof. of Economics and Sociol. (Leland Stanford).
 *Social Psychology. iv, 6, Au.-S.
 *Social Control. iv, 6, Au.-S.
- MARION TALBOT, Assoc. Prof. of Sanitary Science.
 A.B., Boston Univ., '80, and A.M., '82; B.S., Mass. Inst. of Technology, '88; Instr. Domestic Science, Wellesley, '90-2.
 *General Hygiene. iv, 12, Ap.-Jun.
 *Seminar. Sanitary Science. ii, 36, O.-Jun.
 *House Sanitation. iv, 12, O.-D. Water, Food, Clothing, Ja.-Mar. Economy of Living, Ap.-Jun.
- FREDERICK STARR, Assoc. Prof. of Anthropology.
 S.B., Lafayette, '82; S.M., and Ph.D., '85; Prof. Biological Sciences, Coe Col., '84-8; In charge Dept. Ethnology, Am. Mus. of Natural Hist., '89-91.
 *Lab. Work in Anthropology. iv, 26, O.-Jun.
 *Physical Anthropol. Lab. iv, 36, O.-Jun.
 *[Physical Anthropol. (el). iv, 12, O.-D.]
 *Mexico. Archæology, Ethnology. iv, 12, O.-D.
 *General Anthropol. iv, 12, O.-D.
 *Ethnology American Race. iv, 12, Ja.-Mar.
 *Prehistoric Archæology. American. iv, 12, Ap.-Jun.
 *Field Work in Anthropol. Mexico. Jul.-S.
 *[Prehistoric Archæology. European. iv, 12, Ap.-Jun.]
 *[General Ethnology. iv, 12, Ja.-Mar.]
- CHARLES ZEUBLIN, Univ. Extens. Assoc. Prof. of Sociol.
 Ph.B., Northwestern, '87; D.B., Yale, '89.
 *Devel. of Soc. Structure in Great Britain. iv, 12, Jul.-S.; also iv, 12, Ap.-Jun.
- G. E. VINCENT, Instr. in Sociology.
 A.B., Yale, '85; Vice-Principal Chautauqua System, '88-pr.; Fellow in Sociology, Chicago, '92-4. — Introduction to Study of Society.
 *Province of Sociology. iv, 12, O.-D.

Chicago — Continued.

- *Social Structures and Functions. iv, 12, Ja.-Mar.
- *Social Psychology. iv, 12, Ap.-Jun.
- *Contemp. Society in U. S. iv, 12, O.-D.
- *Urban Life in U. S. iv, 12, Ja.-Mar.
- *Intro. to Study of Society. iv, 12, Ap.-Jun.

W. I. THOMAS, Instr. in Folk Psychology.

- A.B., Univ. of Tenn., '84, A.M., '85, and Ph.D., '86; Prof. of Eng., Oberlin, '89-'94; Fellow in Sociology, Chicago, '93-4; Ph.D., Chicago, '96.
- *Folk Psychology. iv, 12, O.-D.; also Ap.-Jun.
- *Sex in Folk Psychol. Somatic. iv, 12, O.-D. Psychic and Social. iv, 12, Ja.-Mar.
- *Primitive Art. iv, 12, Ja.-Mar.
- *[The Child in Folk Psychology. —?]

CLARK.

10 Graduate Students, 1895-6.

A. F. CHAMBERLAIN [see 8].

General and Special Anthropology, Ethnology, and Ethnography. ii, 35, O.-Jun.

COLUMBIA.

59 Graduate Students, 1895-6.

RICHMOND MAYO-SMITH, Prof. of Pol. Econ. and Social Science.

Ph.D. (hon.), Amherst. — Joint Ed. *Pol. Sci. Quar.*, Statistics and Econ., Statistics and Sociology, Bureau of Labor, Census of U. S., Census Methods, Wage Statistics, Emigration and Immigration, Internal Revenue, Methods in Pol. Econ., Assimilation of Nationalities.

- *Pol. Econ. (el). ii, F.-My. (With Mr. Day.)
- Hist. and Practical Pol. Econ. Production and Consumption. iii, O.-F. Distribution. iii, F.-My.
- [Hist. and Practical Pol. Econ. Problems of Exchange. iii, F.-My.]
- Statistics and Sociology. ii, O.-F.

- Statistics and Economics. ii, F.-My. [Theory, Technique, and Hist. of Statis. Sci. ii, F.-My.]
- Seminar. Statistics. i, O.-My.
- Seminar. Pract. Econ. i, O.-My.

EDWIN R. A. SELIGMAN, Prof. of Pol. Econ. and Finance.

LL.B., Ph.D., Columbia, '84. — Joint Ed. *Finanz Archiv, Pol. Sci. Quar.*, and Stud. in Hist., Econ., and Pub. Law, Essays in Taxation, Shifting and Incidence, Income Tax.

- Econ. Hist. of Europe and America. ii, O.-F. (With Mr. Day.)
- Sci. of Finance. ii, O.-My.
- [Financial Hist. U. S. ii, O.-F.]
- Indust. and Tariff Hist. U. S. ii, F.-My.
- [Railroad Problems. ii, F.-My.]
- Hist. of Pol. Econ. ii, O.-My.
- *Seminar. Prelim. Pol. Econ. i, O.-My. (With Mr. Day.)
- Seminar. Pol. Econ. and Finance. i, O.-My.

JOHN B. CLARK, Prof. of Pol. Econ.

Ph.D., Amherst, '75; Prof. Hist. and Pol. Econ., Carleton, '77-'82; Prof. of same, Smith, '82-'93; Lect., Johns Hopkins, '92-'5; Prof. Pol. Econ., Amherst, '92-'5. — Joint Ed. *Pol. Sci. Quar.*, Distribution of Wealth, Econ. Theory, Land, Theory of Capital and Interest.

- Econ. Theory. Statics. ii, O.-F.
- Dynamics. ii, F.-My.
- Communitic and Socialistic Theories. ii, O.-F.
- Theories of Social Reform. ii, F.-My.
- Seminar. Pol. Econ. i, O.-My.

FRANKLIN H. GIDDINGS, Prof. of Sociology.

A.M., Union. — Ed. Amer. Econ. Assn. Monographs, Assoc. Ed. Vol. I. *Annals Amer. Acad. Pol. and Soc. Sci.*, Joint Ed. *Pol. Sci. Quar.*, Principles of Sociology, Profit Sharing, Distribution, Theory of Capital and Interest, Sociology.

- General Sociology. ii, O.-F.
- Sociological Laws. ii, F.-My.
- Pauperism, Poor Laws, and Charities. ii, O.-F.
- Crime and Penology. ii, F.-My.
- Seminar. Sociology. i, O.-My.

WILLIAM Z. RIPLEY, Lect. on Anthropol-
ogy.

B.S., Mass. Inst. of Tech., '90; A.M., Colum-
bia, '92; Ph.D., Columbia, '93; Assoc. Prof.
Pol. Econ. and Sociol., Mass. Inst. of Tech.,
'94-6; Lect., Hartford School of Sociology,
'95-6. — Fin. Hist. of Va., Amer. Ed. *Zeit-
schrift für Litteratur*, etc.

Physical Geog., Anthropol. and Eth-
nology. ii, O.-F.

LIVINGSTON FARRAND [see 7].

General Anthropology. ii, F.-My.
Anthropology. Primitive Culture. ii,
O.-My.

FRANZ BOAZ, Instr. in Anthropol.

Physical Anthropol. ii, O.-My.
Applica. of Statistical Methods to
Biolog. Problems (adv). iii, O.-My.
North Am. Langs. Seminar. ii, O.-
My.

*Internat. Trade and Tariff Hist. U. S.
i, 32.

*Labor Question. ii, 12, O.-D.

*Hist. Trades Unions. ii, 11, Ja.-Mar.

*Socialism. ii, 9, Ap.-Jun.

WALTER F. WILLCOX, Assoc. Prof of
Social Science and Statistics.

A.B., Amherst; Ph.D., Columbia; Instr. in
Philos., Cornell, '91-2; Asst. Prof. Social
Science and Pol. Econ., '92-4. — Marriage and
Divorce, Vital and Social Statistics.

*Social Science (el). ii, 32.

*Social Statistics. ii, 32.

*[Theoretical Social Science (adv). ii,
32.]

*Practical Social Science (adv). ii, 32.

*Economic and Commercial Geog. ii,
32.

*[Anthropology. ii, 32.]
Seminary. ii, 32.

CORNELL.

6 Graduate Students, 1895-6.

1 Fel. \$600, 2 Fels. \$500 each.

J. W. JENKS [see 9].

*Economic Legislation. ii, 32.

CHARLES H. HULL, Asst. Prof. of Pol.
Econ.

Ph.B., Cornell, '86; Ph.D., Halle, '92; Instr.
in Pol. and Social Institutions, Cornell, '92-3.

*Hist. of Pol. Econ. i, 23, O.-Mar.

*Money, Credit, and Banking. iii, 32.

*Railroad Transportation. iii, 9, Ap.-
Jun.

*Finance, Taxation, Admin. Public
Debts. ii, 32.

*Recent Econ. Theory. Am., Eng.,
Continental. ii, 32.

*[Earlier Econ. Theory (Prior to J.
S. Mill). ii, 32.]

*Financial Hist. N. Y. ii, 23, O.-Mar.

*Seminary. ii, 32.

CHAS. J. BULLOCK, Instr. in Economics.

A.B., Boston, '89; Ph.D., Wisconsin, '95.

*Industrial Hist., Eng. and Am. ii, 32.

HARVARD.

48 Graduate Students, 1895-6.

[Courses marked R are open to Radcliffe Gradu-
ate Students.]

*Fel. in Pol. Econ., \$450; in Social Sci.,
\$500; in Archaeol. and Ethnol., \$500 and
\$1,050, also Schol. of \$200. Prize of
\$150 for essay in Pol. Sci.; two of \$100
each for essays on social questions. Pea-
body Mus. Am. Archaeol. and Ethnol., with
Lib., is intended for research.*

CHARLES F. DUNBAR, Prof. of Pol.
Econ.

A.B., Harv., '51; LL.D., same '91. — Bank-
ing, finan. legisla., var. arts. on econ. subj.

*[Hist. of Financial Legisla. in U. S.
ii-iii, 15, O.-Ja.]

*Select Topics in Financial Hist. U. S.
ii, 15, O.-Ja.

*[Financial Admin. and Pub. Debts.
iii, 15, O.-Ja.]

*Banking and Hist. of Banking Systems.
iii, 15, O.-Ja.

Seminary. Economics. i, 30. (With
Profs. Taussig, Ashley, and Cum-
mings.)

Harvard — Continued.

PROF. DUNBAR AND H. R. MEYER,
A.M.

- *Internat. Payments and Flow of Precious Metals. iii, 15, F.-My.

FRANK W. TAUSSIG, Prof. of Pol. Econ.

A.B., Harv., '79; Ph.D., '83, and LL.B., '86. — Co-ed. *Quar. Journ. Economics*, tariff legisla., currency, railways, etc.

- *Econ. Theory since mid. of 19th Cent. iii, 30.
- *[Scope and Method in Econ. Theory and Invest. —?]
- *Railway Transportation. iii, 15, O.-Ja.
- *Hist. of Tariff Legisla. in U. S. ii-iii, 15, F.-My.

WILLIAM J. ASHLEY, Prof. of Econ. Hist.

A.B., Oxford, '81, and A.M., '85; Fel., Lincoln Col., and Lect. on Hist., Lincoln and Corpus Christi Col., Oxford, '85-8; Prof. Polit. Econ. and Const. Hist., Toronto, '88-'92. — Economic hist., var. papers on hist. of land tenures and of industry.

- *[Mediæval Economic Hist. of Europe. ii-iii, 30.]
- *Mod. Econ. Hist. of Europe and Am. since 1600. ii-iii, 30.
- *Hist. and Lit. of Economics to mid. of 19th Cent. ii-iii, 30.

EDWARD CUMMINGS, Asst. Prof. of Sociology.

A.B., Harv., '83; A.M., same, '85. — Arts. on Trades Unions, Univ. Settlements, etc.

- *Princ. of Sociology. Devel. of Modern State. ii-iii, 30.
- *Socialism and Communism. ii-iii, 30.
- *Labor Question in Europe and U. S. iii, 30. (With Dr. John Cummings.)

JOHN CUMMINGS, Instr. in Pol. Econ.

A.B., Harv., '91; Ph.D., Chicago, '94. — Poor Laws in U. S., etc.

- *Theory and Method of Statistics. iii, 30.

-
- *Theory and Method of Taxation. iii, 15, F.-My.

FRANCIS G. PEABODY, Prof. of Christian Morals.

A.B., Harv., '69, A.M. and S.T.B., '72; S.T.D., Yale, '87. — Arts. on labor colonies, etc.

- *Ethics of Social Questions. iii, 30.
- Sociolog. Sem. Christian Doct. of the Social Order. ii, 30.

FREDERICK W. PUTNAM, Prof. of Archaeology and Ethnology, and Curator of Peabody Museum.

A.M. (hon.), Williams, '68; S.D. (hon.), Univ. of Pa., '94; Curator Dept. Anthropol., Am. Mus., Central Park, N. Y. — Var. arts. on Am. archæol., ancient Am. art, Mammoth Cave, etc.

- R)Am. Archæol. and Ethnol. Research.
- R)Gen. Anthropology, with special ref. to Am. Archæol. and Ethnol. iii, 30. (With F. Russell, S.M.)

JOHNS HOPKINS.

23 Graduate Students, 1895-6.

SIDNEY SHERWOOD, Associate Prof. of Polit. Econ.

Ph.D., Johns Hopkins, '91.

- Economic Seminary. ii, Fort., 30.
- Research and Criticism. ii, 30.
- Principles of Econ. ii, 15, O.-Ja.
- Transportation. ii, 15, F.-Jun.
- *Recent Econ. Theories. ii, 15, F.-Jun.

J. H. HOLLANDER, Instr. in Econ.

Ph.D., Johns Hopkins, '94.

- Municipal Finance. ii, 15, O.-Ja.
- Econ. Thought before Adam Smith. ii, 15, F.-Jun.
- *Recent Econ. Changes. ii, 15, O.-Ja.
- Economic Devel. of Baltimore. i, 30.

E. R. L. GOULD, Prof. of Statistics (Chicago).

- Problems in Municipal Sociol. 6 lects., Ja.
- Soc. Treatment of Dependents, Defectives, and Delinquents. 25 lects., F.

LELAND STANFORD, JR.

i Graduate Student, 1895-6.

EDWARD A. ROSS, Prof. of Econ. Theory and Finance.

A.B., Coe Col., '86; Ph.D., Johns Hopkins, '91; Prof. of Econ. and Social Science, Indiana, '91-2; Assoc. Prof. of Pol. Econ. and Finance, Cornell, '92-3.—Taxation, Sinking Funds, Location of Industries, Money.

*Transportation. iii, 32.

Cities. ii, 18, Ja.-My.

*Sociology. ii, 32.

*Education and Society. ii, 14, S.-D. Seminary. ii, 32. (With Prof. Powers.)

HARRY H. POWERS, Prof. of Econ.

A.B. and B.L., Wis., '82, and A.M., '87; Instr., same, '85-6; Prof. French, Oberlin, '88-92; Prof. Econ. and Sociology, Smith Col., '93-5.—Sociology and Terminology, Sociology and Education, Immaterial Capital, Harmonies of Economics.

Production and Consumption (adv). iii, 32.

Primitive Social Institutions. ii, 32.

MARY R. SMITH, Asst. Prof. of Social Sci.

Ph.B., Cornell, '80, and M.S., '82; Ph.D., Stanford, '96; Instr. in Hist. and Econ., Wellesley, '86-'90.—Study of Almshouse Women.

*Crime and Penology. ii, 14, S.-D.

*Immigration. ii, 18, Ja.-My.

MICHIGAN.

17 Graduate Students, 1895-6.

Weekly reports and discussions in current econ. legislation and literature.

HENRY C. ADAMS, Prof. of Pol. Econ. and Finance.

A.B., Iowa Col., '74; Ph.D., Johns Hopkins, '78; Lect., Johns Hopkins and Cornell; Statistician to Interstate Commerce Commission; Special expert agent on transportation, 11th Cens.; Director of Economics, School of Applied Ethics.—Assoc. Ed. *Internat. Jour. of Ethics*, finance, economic theory, railway and transportation statistics.

*Hist. Devel. of Industrial Society. ii, 17, O.-F.

*Principles of Science of Finance. ii, 17, F.-Jun.

*Transportation Problems. iii, 17, F.-Jun.

Devel. and Significance of Eng. Pol. Econ. iii, 6, O.-N.

[Devel. and Significance of Hist. School of Econ. iii, 6, O.-N.]

[Devel. and Significance of Austrian School of Econ. iii, 6, O.-N.]

[Relations of the State to Industrial Action. iii, 6, F.-Mar.]

Comp. Fiscal Institutions. iii, 6, F.-Mar.

[Labor Organizations and Corporations as Factors in Industrial Organization. iii, 6, F.-Mar.]

Seminary. Finance. ii, 17, O.-F. Seminary. Economics. ii, 17, F.-Jun.

F. M. TAYLOR, Junior Prof. of Pol. Econ. and Finance.

A.B., Northwestern, '76, and A.M., '79; Ph.D., Mich., '88; Prof. of Hist. and Politics, Albion, '79-'92.—Natural Law, Right of the State to Be.

*History and Theory of Money and Banking. ii, 17, O.-F.

Hist. of Pol. Econ. ii, 17, F.-Jun.

*Socialism. ii, 17, F.-Jun.

*Industrial Hist. U. S. ii, 17, O.-F.

[The Value of Money, Theory and Statistics. iii, 6, N.-D.]

[The Standard of Value. iii, 6, N.-D.] Paper Money. iii, 6, N.-D.

[Social Philos., with spec. ref. to Econ. Probs. iii, 6, Mar.-Ap.]

[Credit as a Factor in Production. iii, 6, Mar.-Ap.]

The Agricult. Problem. iii, 6, Mar.-Ap.

C. H. COOLEY, Instr. in Sociology.

A.B., Mich., '87; Ph.D., same, '94; Chief of transport, div. 11th cens.—Transportation, esp. fed. regulation of safety appliances and urban transport., theory of statistics.

*Principles of Sociology. iii, 17, O.-F. Problems, F.-Jun.

*Sociology (adv). ii, 17, F.-Jun.

Hist. Devel. of Sociolog. Thought. iii, 6, Ja.-F.

Nature and Process of Social Change. iii, 6, Ja.-F.

Michigan — Continued.

[Aims and Methods in Study of Society.
iii, 6, Ja.-F.]

Town and Country. Distribution of
Population. iii, 6, My.-Jun.

[Current Changes in Social Organiza-
tion of U. S. iii, 6, My.-Jun.]

[Theory of Population. iii, 6, My.-
Jun.]

*Theory of Statistics. i, 34, O.-Jun.

*Special Studies in Statistics. ii, 17,
F.-Jun.

MINNESOTA.

10 Graduate Students, 1895-6.

WILLIAM W. FOLWELL [see 9].

Econ. Hist. and Theories. Individuals
directed.

Seminary. Taxation and Money. i,
36.

SAMUEL G. SMITH, Lect. on Sociology.

A.B., Cornell Col., '72; A.M., and Ph.D.,
Syracuse, '84; D.D., Upper Iowa Univ., '86.

*Social Science. iii, 12.

Individual Research. iv, 36.

NEW YORK.

15 Graduate Students, 1895-6.

FRANK M. COLBY, Prof. of Pol. Econ.

A.B., Columbia, '88, and A.M., '89.

Practical Economics. ii, 24.

Economic Theory. ii, 24.

Hist. of Indust. Devel. ii, 30.

F. RUSSELL, Prof. of Law of Contracts
in N. Y. U. Law School.

A.M., N. Y. U., '78; LL.M., Yale, '79;
D.C.L., Yale, '80; LL.D., Dickinson, '93;
Prof. Econ. and Const. Law, N. Y. U., '80-
'93.—Outline Study of Law.

Intro. to Sociology. ii, 30.

Principles of Sociology. ii, 30.

NORTHWESTERN.

0 Graduate Students, 1895-6.

JOHN H. GRAY, Prof. of Pol. and Social
Science.

A.B., Harvard, '87; Ph.D., Halle, '92; Instr.
in Econ., Harvard, '87-9.—Die Stellung der
Privaten Beleuchtungsgesellschaften zu Stadt
und Staat.

*[Administration. ii, 36.]

*Finance. ii, 36.

*Seminary. ii, 36.

WILLIAM CALDWELL, Prof. of Moral
and Social Philosophy.

A.M., Pass Degree, Edinburgh, '84; A.M.,
and Honors of First Class, same, '86; Asst.
Prof. of Philos., same, '88-90; Instr. Cornell,
'90-1; Instr., Chicago, '92-4; Fellow, Edin-
burgh, '86-'93, and Sc.D., '93.

*Seminary. Ethical Philos. —?

*Seminary. Sociology. —?

PENNSYLVANIA.

40 Graduate Students, 1895-6.

Colwell Lib. of Finan. and Pol. Econ., 7,000
vols. *Carey Lib.*, rich in *Statistics*, incl.
3,000 *Eng. Pamphlets*. 1 *Fel. of \$500*, 1
Schol. of \$100.

SIMON N. PATTEN, Prof. of Pol. Econ.

Princ. of Pol. Econ., Consumption of Wealth,
Econ. Basis of Protection, Theory of Dy-
namic. Econ.

Hist. Pol. Econ. ii, 15, O.-F.

Recent Devel. in Pol. Econ. ii, 15,
F.-My.

[Relat. of Eng. Philos. to Econ. ii,
15, O.-F.]

[Problems of Sociol. ii, 15, F.-My.]

Pract. Applications of Econ. Theory.
ii, 15, O.-F.

Scope and Method of Pol. Econ. ii,
15, F.-My.

Sem. Pol. Econ. ii, Fort., 30.

HENRY R. SEAGER, Instr. in Pol. Econ.

Ph.D., Mich., '90; Ph.D., Univ. of Pa., '94.
—Econ. subjects.

Econ. Conference. ii, 30.

Adv. Reading in Ger. and Fr. Econ.
ii, 30.
[Theory of Value and Distribution. ii,
15.]
Econ. Changes in Eng., 1750-1870.
ii, 15, O.-F.
Research. i, 30.

SAMUEL M. LINDSAY, Instr. in Soc. Sci.
Ph.B., Univ. of Pa., '89; Ph.D., Halle, '92.
Gen. Sociol. (2-yr. course). ii, 30.
Outline Study of Social Debtor Classes.
ii, 30.
Sociol. Field Work. ii, 30.

EMORY R. JOHNSON, Instr. in Transporta-
tion and Commerce.
Theory of Transportation. ii, 30.

ROLAND P. FALKNER, Assoc. Prof. of
Statistics.

A.B., Cent. High School, Phila., '83; Ph.B.,
Univ. of Pa., '85; Ph.D., Halle, '88; Instr.
in Statistics, '88-'91. — Trans. Hist. Theory
and Technique of Statistics, Report on Whole-
sale Prices and Wages.

Intro. to Statistics. ii, 15, O.-F.
Statistics of Econ. Problems. ii, 15,
F.-My.
Hist. and Theory of Statistics. ii, 15,
O.-F.
Statistical Organization. ii, 15, F.-My.

D. G. BRINTON [see 6].

Methods of Archæol. Explor. ii, 30.
Remains in Archæol. Provinces of N.
and S. America. ii, 30.
Relat. of Archæol. to Ethnog. ii, 30.

PRINCETON.

12 Graduate Students, 1895-6.

1 Fellowship, \$300.

WINTHROP M. DANIELS, Prof. of Pol.
Econ.

A.B., Princeton, '88, and A.M., '90; Instr.,
Wesleyan, '91-2. — Arts. in *Banker's Mag.*

*Economics. iii, 16, F.-My.
*Public Finance. ii, 15, S.-Ja.
*Hist. of Pol. Econ. ii, 16, F.-My.

WALTER A. WYCKOFF, Lect. on Sociology.
A.B., Princeton, '88.
Sociology. ii, 16, F.-My.

RADCLIFFE.

4 Graduate Students, 1895-6.

[See Harvard Courses marked R.]

*Seminary in Economics, with Profs. Taussig,
Ashley, and Cummings.*

W. J. ASHLEY.

*[Mediæval Econ. Hist. of Europe.
iii, 30.]
*Modern Econ. Hist. of Europe and
Am. since 1600. iii, 30.
*Hist. and Lit. of Pol. Econ. to mid.
19th Cent. iii, 30.

EDWARD CUMMINGS.

*Soc. and Econ. Condi. of Working-
men. iii, 30. (With Dr. John
Cummings.)
*Princs. of Sociol. iii, 30.
*Socialism and Communism. Hist. and
Lit. iii, 30.
[One of the two last courses will be omitted,
1896-7.]

JOHN CUMMINGS.

*Theory and Methods of Statistics.
iii, 30.

TULANE.

0 Graduate Students, 1895-6.

JOHN R. FICKLEN [see 9].

System of Taxation. iii, 24.
Tariff. i, 24.
Profit Sharing and Coöp. iii, 12.
Studies in Sociology. ii, 24.

VANDERBILT.

6 Graduate Students, 1895-6.

FREDERICK W. MOORE [see 9].

Recent Lit. on Taxation. —?
Monopolies, Trusts, the Labor Prob-
lem. iii, 32.
Magazine Club. —?

WELLESLEY.

2 Graduate Students, 1895-6.

KATHARINE COMAN [see 9].

- *Indust. Hist. of U. S. iii, 17, F.-Jun.
- *Indust. Hist. of Eng. iii, 17, S.-Ja.
- *Socialism. iii, 17, F.-Jun.
- *Statistical Study of Certain Econ. Problems. iii, 17, S.-Ja.
- *Social Pathology. iii, 17, F.-Jun.

WESTERN RESERVE.

2 Graduate Students, 1895-6.

S. F. WESTON, Assoc. Prof. of Pol. and Soc. Sci.

A.B., Antioch, '79, and A.M., '85; Asst. in Economics, Columbia, '92-4. — Finance, Justice in Taxation.

- *Economic Hist. iii, 16, S.-F.
- *Economic Theories. iii, 16, S.-F.
- *The State and Civil Govt. iii, 16, S.-F.
- *Social Problems and Theories. iii, 17, F.-Jun.
- *Pauperism and Charities. iii, 17, F.-Jun.
- *Money, Banking, and Tariffs. iii, 17, F.-Jun.
- *Commerce and Transportation. iii, 17, F.-Jun.

C. F. THWING, President.

D.D., Chicago Theolog. Sem., '88. — The Family, etc.

The Family as a Historical and Social Institution. i, 33.

M. M. CURTIS [see 7].

- *Anthropology. iii, 16, S.-F.
- Psychology of Society. iii, 17, F.-Jun.

WISCONSIN.

24 Graduate Students, 1895-6.

Location at the State capital gives special facilities for studying the State's activities and methods of administration. Field Work in charitable and correctional institutions in Madison and Chicago. Opportunity for continuous practical work during summer months.

RICHARD T. ELY, Prof. of Pol. Econ. and Director of the Sch. of Econ., Pol. Science, and Hist.

A.B., Columbia, '76; Ph.D., Heidelberg, '79; LL.D., Hobart, '92; Chair of Pol. Econ., Johns Hopkins, '81-'92. — French and Ger. Socialism, Labor Movement, Taxation in Am. States and Cities, Problems of To-day, Pol. Econ., Social Aspects of Christianity, Ed. Crowell's Lib. of Econ. and Pol.

- Distribution of Wealth. ii, 36.
- Public Finance. iii, 18, S.-F.
- Taxation and Am. Public Finance. iii, 18, F.-Jun.
- Social Ethics. ii, 18, S.-F.
- [Socialism. ii, 18, S.-F.]
- Economic Seminary. Scope and Method of Economics. ii, 36. (With Assoc. Prof. Scott and Dr. Jones.)

WILLIAM A. SCOTT, Assoc. Prof. of Pol. Econ.

A.B., Rochester, '86; Prof. Hist. and Pol. Econ., Univ. So. Dak., '87-'90; Instr. in Hist., Johns Hopkins, '91-2; Ph.D., Johns Hopkins, '92. — Repudiation of State Debts in the U. S., Social Aspects of Pauperism and Crime.

- [Theories of Value. ii, 18, S.-F.]
- Theories of Rent, Wages, Profits, and Interest. ii, 36.
- [Theories of Production and Consumption. ii, 18, F.-Jun.]

FRANK C. SHARP [see 7].

- Social Ethics. ii, 18, S.-F.
- Readings in Ger. Social Philos. ii, 18, F.-Jun.

JEROME H. RAYMOND, Prof. of Sociology, and Sec. Univ. Extens. Dept.

A.B., Northwestern, '92, and A.M., '93; Lect. Chi. Soc. for Univ. Extens., '92-3; Prof. Hist. and Pol. Sci., Lawrence, '93-4; Lect. in Sociol., Univ. Extens. Div., Chicago, '94-5; Asst. in Sociology, and Ph.D., same, '95.

- *Anthropology. Evolution of Society. iii, 18, S.-F.
- *Ethnology. iii, 18, F.-Jun.
- *Descriptive Sociology. iii, 18, S.-F.
- *Hist. Survey of Sociol. Thought. iii, 18, F.-Jun.
- Static Sociology. Social Ideals. iii, 18, S.-F. Dynamic. Social Forces. iii, 18, F.-Jun.

EDWARD D. JONES, Instr. in Statistics and Economics.

B.S., Ohio Wesleyan, '92; Ph.D., Wis., '95.

*Statistics. iii, 36.

*Economic Geography. iii, 18, F.-Jun.

YALE.

26 Graduate Students, 1895-6.

Political Science Club meets fortnightly. Club room with Library for Graduate Students.

W. G. SUMNER, Prof. of Pol. and Soc. Sci.

A.B., Yale, '63; LL.D., Tenn., '84. — Money, Wages, Protectionism, Soc. Classes, Elections, Biog. of Financiers.

Politics and Finance in Hist. of U. S. ii, 32.

Anthropology. i, 32.

Systematic Societology. i, 32.

[Indust. Rev. Renaissance Period. ii, 32.]

[Begin. of Indust. Organization. ii, 32.]

Science of Society. ii, 32.

H. W. FARNAM, Prof. of Pol. Econ.

A.B., Yale, '74; R.P.D., Strassburg, '78. — Joint Ed. *Yale Rev.*, Guilds, Labor Quest., Poor Relief, etc.

[Economics of Poor Relief. i, 32.]

Modern Organiza. of Labor. iii, 12, O.-D.

Princs. Pub. Finance. ii, 20, Ja.-Jun.

A. T. HADLEY, Prof. of Pol. Econ.

A.B., Yale, '76, and A.M., '87. — Joint Ed. *Yale Review*, R. R. Transportation, Econ. Ethics, Pol. Econ.

Econ. Problems of Corporations. i, 32.

Relat. between Econ. and Ethics. i, 32.

*Science of Politics. ii, 32.

A. T. HADLEY AND IRVING FISHER.

*Economics (gen. course). iii, 32.

W. F. BLACKMAN [see 7].

Social Science. ii, 32.

Histor. Study of Marriage and the Family. i, 32.

J. C. SCHAWB, Asst. Prof. of Pol. Sci.

A.B., Yale, '86, and A.M., '88; Ph.D., Göttingen, '89. — Joint Ed. *Yale Review*, U. S. tax. and fin., Finances of Confed. States.

Finance. ii, 32.

U. S. Indust. Hist. ii, 32.

U. S. Financial Hist. i, 32.

U. S. Public Finance. i, 12, O.-D.

Finances of Confed. States, 1861-65. i, 20, Ja.-Jun.

IRVING FISHER, Asst. Prof. of Pol. Econ.

A.B., Yale, '88, and Ph.D., '91. — Joint Ed. *Yale Review*, Mathemat. Treatment of Pol. Econ.

*Theory of Economics (adv). ii, 32.

*Statistics. ii, 32.

II. FINE ARTS, AND THE HISTORY OF ART.

[Including Classical Archæology. Also, Theory of Music. See also 2.]

BARNARD.

—? Graduate Students, 1895-6.

[See Columbia Courses marked B.]

BROWN.

6 Graduate Students, 1895-6.

WILLIAM C. POLAND, Prof. of Hist. of Art and Director of Museum of Fine Arts.

*Class. Archæology. iii, 12, S.-D.

*Early Christ. and Med. Art. iii, 11, Ja.-Mar.

*Art of the Renaissance iii, 10, Ap.-Jun.

Crit. Study of Class. Architecture. iii, 12, S.-D.

Hist. of Greek and Roman Sculpture. iii, 11, Ja.-Mar.

Pausaniæ descriptio arcis Athenarum. iii, 10, Ap.-Jun.

Brown — Continued.

J. N. ASHTON, Instr. in Mus. Theory and Hist.

A.B., Brown, '92; A.M., Harv., '93.

*Fugue, Free Composi. and Instrumentation. iii, 33.

*Hist. of Music. iii, 12, S.-D.

*Hist. Devel. of Mus. Form. iii, 11, Ja.-Mar.

*Musical Analysis. iii, 10, Ap.-Jun.

*Sacred Music. iii, 10, Ap.-Jun.

The Symphony. iii, 33.

BRYN MAWR.

3 Graduate Students, 1895-6.

RICHARD NORTON, Lect. in the History of Art.

A.B., Harv., '92.

Class. Archæol. ii, 30.

*Hist. of Gk. Art. ii, 30.

*Hist. of Ital. Art. ii, 30.

CHICAGO.

— 1 Graduate Students, 1895-6.

F. B. TARBELL [see 2].

Classical Archæol. (intro). iv, 12, O.-D. Hist. Gk. Sculpture, Ja.-Mar.

WARDNER WILLIAMS, Asst. in Music.

Ph.B., Alfred Univ., '80, Ph.M., '83, Mus. B., '87, and Ph.D., '90; Prof. of Music, Milton Col., '80-5; Director of Music, Alfred Univ., '85-'92; Reader in Music, Chicago, '92-4.

*Harmony. ii, 36, O.-Jun.

*Theory of Music. ii, 36, O.-Jun.

*Hist. of Music. i, 36, O.-Jun.

[NOTE. — These courses in Music do not count towards a degree.]

COLUMBIA.

— 1 Graduate Students, 1895-6.

[Courses marked B are open to Barnard Students.]

Lectures from time to time are delivered in this dept. Instr. in Architecture, Drawing, etc., is given in the School of Mines. In the Library, the Avery Architectural Coll. has 13,000 vols. devoted to architecture, and the building and industrial arts.

GEORGE W. WARREN, Prof. of Music.

*Lect. on Theory and Hist. of Music. i, O.-My.

J. R. WHEELER AND C. H. YOUNG [see 2].

B)*Intro. to Gk. Archæol. i, O.-Jun.

CORNELL.

2 Graduate Students, 1895-6.

Instruction given in connection with the museum of Class. Archæol., over 500 large casts of sculpture representing the hist. of Greek and Roman sculptural art. 1 Grad. Schol. \$300, assigned to Class. Archæol., and Comp. Philol.

ALFRED EMERSON, Assoc. Prof. of Class. Archæol., and Curator of Museum of Casts.

Ph.D., Munich, '81; Fellow in Greek, Johns Hopkins, '82-4; Instr. in Class. Archæol., '84-5; Prof. of Latin, Miami, '87-8; Prof. of Greek, Lake Forest, '88-'91. — De Hercule Homeric, Recent Progress in Class. Archæol.

*Classical Archæology. ii, 32.

*Hist. of Sculpture. ii, 32.

*Hist. of Painting. ii, 32.

*Museum Studies. i, 32.

*Archæol. Sem. ii, 32.

CHARLES BABCOCK, Prof. of Architecture.

A.B., Union, '47, and A.M., '50.

*History of Anc. and Med. Architecture. iii, 32.

*History of Architecture. Renaissance and Modern. iii, 23, O.-Mar.

HARVARD.

12 Graduate Students, 1895-6.

[Courses marked R are open to Radcliffe Graduate Students.]

Fogg Art Museum contains a large collection of casts and photographs.

CHARLES ELIOT NORTON, Prof. of the History of Art.

A.B., Harv., '46, and A.M., '49; Litt.D., Cambridge, '84; LL.D., Harv., '87; L.H.D., Columbia, '88. — *New Life of Dante*, var. arts. on architect., Am. and Eng. lit., hist. of art., etc., Ed. Corr. of Emerson and Carlyle, Letters of Lowell, Heart of Oak Books.

*Roman and Mediæval Art. iii, 30.

PROF. NORTON AND ASST. PROF. C. H. MOORE.

*[Ancient and Mediæval Art. iii, 30.]

JOHN WILLIAMS WHITE [see 2].

[Disputed Questions in Athenian Topography. — ?]

JOHN H. WRIGHT [see 2].

R)Class. Archæol. and Art. Lit. and Epigraphic Sources. ii-iii, 30.

JOHN K. PAINE, Prof. of Music.

A.M. (hon.), Harv., '69; Mus.D., Yale, '90.

*Counterpoint. ii, 30.

*[Hist. of Music. i-ii, 30.]

*Instrumentation. i, 30.

R)Canon and Fugue. Free Thematic Music. ii, 30.

R)Adv. Canon and Fugue and Free Composition. ii, 30.

WALTER R. SPALDING, Instr. in Harmony.

A.B., Harv., '87, and A.M., '88.

*Harmony. ii-iii, 30.

LELAND STANFORD, JR.

o Graduate Students, 1895-6.

WALTER MILLER [see 2].

*Archæological Seminary. Cypriote Antiquities. ii, 32.

MICHIGAN.

3 Graduate Students, 1895-6.

M. L. D'OOGHE [see 2].

*Hist. of Greek Art. iii, 17, O.-F.

Inscriptionum Græcarum. ii, 17, F.-Jun.

Gk. Antiquities. Lects. on Monuments, and Private Life of Athenians. i, 17, F.-Jun.

FRANCIS W. KELSEY [see 2].

*Intro. to Roman Archæology. iv, 17, F.-Jun.

JAS. A. CRAIG [see 1].

*Assyrian-Babylonian Archæol. Babylonian Art, from earliest times. ii, 17, O.-F.

A. A. STANLEY, Prof. of Music.

A.M., Mich., '90.

*Canon and Fugue. ii, 34, O.-Jun.

*Musical Form. ii, 34, O.-Jun.

Free Composition. ii, 34, O.-Jun.

Instrumentation. ii, 34, O.-Jun.

PRINCETON.

o Graduate Students, 1895-6.

Fellowship of \$400 in Archæology.

ALLAN MARQUAND, Prof. of Archæology and Hist. of Art.

A.B., Princeton, '74; Ph.D., Johns Hopkins, '80; Instr. in Hist. of Art., '82-3. — Ed. *Am. Jour. of Archæol.*, Epicurean logic, logical machines, hist. sculpture and painting, var. archæol. papers.

*Greek and Roman Sculpture. ii, 16, S.-Ja.

*Renaissance and Mod. Sculpture. ii, 16, F.-My.

H. C. BUTLER, Lect. on Architecture.

A.B., Princeton, '92, and A.M., '93. — Gothic Architecture in France, Med. Architecture of France and Scotland, var. papers in *Am. Architect* and in *Architecture and Building*.

*Early Christian and Romanesque Architecture. ii, 16, S.-Ja.

*Gothic and Renaissance Architecture. ii, 16, F.-My.

RADCLIFFE.

o Graduate Students, 1895-6.

[See Harvard Courses marked R.]

JOHN K. PAINE.

*Counterpoint. iii, 30.

*Hist. of Music. i, 30.

MR. SPALDING.

*Harmony. iii, 30.

TULANE.

o Graduate Students, 1895-6.

W. WOODWARD, Prof. of Drawing and Architecture.

Grad., Mass. Normal Art School.

History of Sculpture. —?

Study of Local Colonial Architecture. —?

Architecture of Renaissance. —?

History of Painting. —?

Adv. Decorative Design. —?

Adv. Architectural Design. —?

WELLESLEY.

4 Graduate Students, 1895-6.

ELIZABETH H. DENIO, Prof. of Ger. and Hist. of Art.

*Renaissance and Later Art. iii, 35.

*Mod. Eng., Fr., and Am. Art. iii, 35.

MARGARET H. JACKSON [see 5].

*Greek Sculpture. iii, 17, F.-Jun.

WESTERN RESERVE.

2 Graduate Students, 1895-6.

S. B. PLATNER [see 2].

*Roman Archæology. iii, 16, S.-F.

H. N. FOWLER [see 2].

*Greek Archæology. iii, 17, F.-Jun.

YALE.

3 Graduate Students, 1895-6.

Lowell Mason Lib. has large coll. of church music.

T. D. GOODELL [see 2].

*Intro. to Gk. Archæology. ii, 32.

J. F. WEIR, Prof. of Painting and Design.

A.M., Yale, '91.

Technical Course in Painting. iv, 32.

Course in Modeling. iv, 32.

J. H. NIEMEYER, Prof. of Drawing.

A.M., Yale, '74.

Drawing. iv, 32.

J. M. HOPPIN, Prof. of Hist. of Art.

A.B., Yale, '40; LL.B., Harvard, '42; D.D., Knox, '70; Prof. of Homiletics and Pastoral Theol., Yale, '61-'79; Lect. on Forensic Eloquence, Yale Law School, '72-5. — Homiletics, Theology, Essays upon Art.

History of Art. i, 20, Ja.-Jun.

H. W. PARKER, Prof. of Theory of Music.

A.M., Yale, '94. — Composer of concert music, songs, oratorio.

*Harmony. ii, 32.

*Counterpoint. ii, 32.

*Strict Composition. ii, 32.

Hist. of Music. i, 32.

*Instrumentation. ii, 32.

Free Composition. ii, 32.

S. S. SANFORD, Prof. of Applied Music.

A.M., Yale, '94.

Pract. Music (organ and piano). —?

III. PURE SCIENCE.

12. MATHEMATICS.

BARNARD.

3 Graduate Students, 1895-6.

F. N. COLE.

Theory of Complex Numbers. iii, 15,
O.-F.Groups of Linear Transformation. iii,
15, F.-My.

Theory of Substitutions. iii, 30.

T. S. FISKE.

*Diff. and Int. Calculus (adv). iii, 30.

BROWN.

11 Graduate Students, 1895-6.

NATHANIEL F. DAVIS, Prof. of Pure
Math.A.B., Brown, '70, and A.M., '73; LL.D.,
Colby, '94; Instr. Math., Brown, '74-9; Asst.
Prof., '79-89; Assoc. Prof., '89-90.*Applications of the Calculus. iii, 11,
Ja.-Mar.BENJAMIN F. CLARKE, Prof. of Mechan.
Engineering.A.B., Brown, '63, and A.M., '66; Instr. Math.,
same, '63-8; Prof. Math. and Civ. Engin., '68-
'93. — Theoret. and Exper. Mechanics.

*Mechanics of Solids. iii, 33.

Mechanics of Fluids. iii, 33.

HENRY P. MANNING, Asst. Prof. of
Math.A.M., Brown, '86; Fel., Johns Hopkins,
'90-1, and Ph.D., '91.

*Diff. Equations. iii, 23, S.-Mar.

Theory of Functions. iii, 33.

Applica. of Theory of Functions. i,
33.Substitutions and Transformation
Groups. iii, 33.[Mod. Algebra, Higher Plane Curves,
and Surfaces. iii, 33.]

[Diff. Equations (adv). iii, 33.]

BRYN MAWR.

6 Graduate Students, 1895-6.

1 Fellowship, \$525.

CHARLOTTE A. SCOTT, Prof. of Math.

Graduate in honors, Girtton Col., '80; B.Sc.,
Univ. of London, '82; Lect. on Math., Girtton,
'80-4; Lect. in connection with Newnham
Col., '80-3; D.Sc., Univ. of London, '85. —
Cubic Curves, Analysis of Singularities,
Modern Analytical Geometry.Geom. on a Plane Algebraic Curve.
ii, 30.

*El. Higher Plane Curves. ii, 30.

*[Modern Analyt. Geom. ii, 30.]

JAMES HARKNESS, Prof. of Math.

Major Schol., Trin. Col., Cambridge, '82;
Graduate in honors (8th Wrangler) in Cam-
bridge Math. Tripos, '85; Math. Exhibitioner,
London Univ. Intermediate Arts Examination,
'85; Math. Schol., London Univ. B.A. Exam.,
'87; A.M., Univ. of Cambridge. — Theory of
Functions.

Elliptic Functions. ii, 30.

[Gen. Theory of Functions. ii, 30.]

*Theory of Substitution Groups. ii, 30.

*[Diff. Equations. ii, 30.]

CALIFORNIA.

13 Graduate Students, 1895-6.

2 Fellowships, \$600.

IRVING STRINGHAM, Prof. of Math.

A.B., Harvard; Ph.D., Johns Hopkins.

Selected Topics in Higher Math. ii,
32. (With Prof. Haskell.)

California — Continued.

- [Theory of Functions of Real Variables. ii, 32.]
 Transformation Groups and Diff. Equations. ii, 32.
 Absolute Geometry. ii, 32.
 *Logic of Mathematics. ii, 32.
 Mathematical Seminary. —?
 [Spherical Harmonics. ii, 32.]
- MELLEN W. HASKELL, Assoc. Prof. of Math.
 A.M., Harvard; Ph.D., Göttingen.
 Partial Differential Equations. iii, 16, Au.-D.
 Theory of Functions of a Complex Variable. iii, 16, Ja.-My.
 Elliptic Functions. ii, 32.
 [Higher Geometry. iii, 32.]
 [Abelian Functions. ii, 32.]
 [Theory of Algebraic Forms. ii, 16, Au.-D.]
 [Theory of Numbers. ii, 16, Ja.-My.]
 [Theory of Substitutions. ii, 32.]
- GEORGE C. EDWARDS, Assoc. Prof. of Math.
 Ph.B., Univ. of Cal.
 *Differential Equations. iii, 32.
- LOUIS T. HENGSTLER, Asst. Prof. of Math.
 A.M., Ph.D., Univ. of Cal.
 *Determinants and Theory of Equations. ii, 32.
 *[Propædæutic to Higher Math. Analysis. ii, 32.]
 *[History of Mathematics. ii, 32.]
- ARCHIE B. PIERCE, Instructor in Mathematics.
 A.B., Univ. of Cal.; A.M., Harvard.
 *[Analytical Projective Geometry. ii, 32.]
 *Quaternions. iii, 32.

CHICAGO.

—† Graduate Students, 1895-6.

6 Fellowships.

- E. HASTINGS MOORE, Prof. of Math.
 A.B., Yale, '83, and Ph.D., '85; Tutor in Math., same, '87-9; Asst. Prof. of Math., Northwestern, '89-'91, and Assoc. Prof., '91-2.
 Theory of Numbers. iv, 12, Jul.-S.
 Diff. Equations with known Infinitesimal Transformations. iv, 12, Jul.-S.
 Projective Geometry. iv, 12, O.-D.
 Seminar. —? O.-Mar.
 Theory of Substitu., I. iv, 12, Ja.-Mar.
- OSKAR BOLZA, Prof. of Math.
 Ph.D., Göttingen, '86; Reader in Math., Johns Hopkins, '88-9; Assoc. in Math., Clark, '89-'92.
 Theory of Functions. iv, 12, Jul.-S.
 Theory of Substitutions. iv, 12, Jul.-S.
 Theory of Substitu., II. iv, 12, Ap.-Jun.
- HEINRICH MASCHKE, Asst. Prof. Math.
 Ph.D., Göttingen; Prof. of Math., Luisenstädtische Gymnasium, Berlin, '80-'90.
 Integr. Calculus (adv). iv, 24, O.-Mar.
 Mod. Analytic Geom. iv, 12, O.-D.
 Higher Plane Curves. iv, 12, Ja.-Mar.
 Algebraic Surfaces. iv, 12, Ap.-Jun.
 Theory of Functions. iv, 12, Ap.-Jun.

- J. W. A. YOUNG, Instr. in Math.
 A.B., Bucknell, '87, and A.M., '90; Fel. in Math., Clark, '89-'92, and Ph.D., '92.
 Theory of Numbers. iv, 12, Ja.-Mar.
- JAMES H. BOYD, Instr. in Math.
 Theory of Surfaces. iv, 12, O.-D.
- HARRIS HANCOCK, Tutor in Math.
 Calculus of Variations. iv, 12, Ap.-Jun.
- HERBERT E. SLAUGHT, Asst. in Math.
 Integr. Calculus (adv). iv, 12, Jul.-S.
 Diff. Equations. iv, 12, Ap.-Jun.

CLARK.

6 Graduate Students, 1895-6.

Two Fels. \$600 each, two \$400 each; two Schols. \$200 each, two \$100 each.

WILLIAM E. STORY, Prof. of Math.

A.B., Harv., '71; Parker Fellow, '74-5; Ph.D., Leipzig, '75; Tutor in Math., Harv., '75-6; Assoc. Asst. Prof. and Assoc. Prof. Math., Johns Hopkins, '76-'89. — Assoc. Ed. *Amer. Jour. Math.*, '78-'82, Ed. *Math. Review*, Algebraic invariants and covariants, non-Euclidian geom., analyt. geom. (esp. higher plane curves), elliptic functions.

Theory of Errors and the Method of Least Squares (adv). ii, 18, O.-F.
Applications of the Infinitesimal Calculus to the Theory of Surfaces (adv). iii, 17, F.-Jun.

Seminary (adv). 35, O.-Jun.

Modern Synthetic Geom. (intro). ii, 17, F.-Jun.

Analytic Geometry of Higher Surfaces and Twisted Curves (intro). iii, 18, O.-F.

HENRY TABER, Asst. Prof. of Math.

Ph.B., Yale, '82; Ph.D., Johns Hopkins, '88; Asst. in Math., Johns Hopkins, '88-9; Docent in Math., Clark, '89-'92.

Analytic Geometry of Conic Sections, Quadric Surfaces and Higher Plane Curves (intro). iii, 35, O.-Jun.

Theory of Functions of Real and Imaginary Variables, and Definite Integrals (intro). iii, 35, O.-Jun.

Theory of Transformation Groups. —? Seminary. Weekly, O.-Jun.

JOSEPH DE PEROTT, Docent in Math.

Theory of Numbers (intro). ii, 18, O.-F.

Riemann's Surfaces and Abelian Integrals (adv). ii, 17, F.-Jun.

COLUMBIA.

3 Graduate Students, 1895-6.

Collection of math. models and apparatus purchased by Pres. Low from German Univ. Exhibit at Chicago Exposition.

J. HOWARD VAN AMRINGE, Prof. of Math.

A.M., Ph.D., Univ. St. of N. Y., '77; L.H.D., Columbia, '90; Tutor, Columbia, '60; Act. Prof., '63; Prof., '65-'96.

*Analytical Geom. iii, O.-My.

*Diff. and Integ. Calculus. iii, O.-My.

THOMAS SCOTT FISKE, JR., Adj. Prof. of Math.

A.B., Columbia, '85, A.M., '86, and Ph.D., '88; Fel. in Math., '88-'91; Instr. in Math., '91-4; Adj. Prof., '94. — Ed. *Bulletin of N. Y. Math. Soc.*, Ed. *Bulletin of Am. Math. Soc.*, theory of functions, invariants, etc.

[Gen. Theory of Functions. iii, O.-My.]

Theory of Functions (2d course). iii, O.-My.

FRANK N. COLE, Prof. of Math.

Ph.D., Harv., '86; Lect. Math., Harv., '87-8; Instr. Math., Mich., '88-9; Asst. Prof., '89-'95.

[Theory of Substitutions. iii, O.-My.]
Theory of Complex Variable and Elliptic Functions. iii, O.-My.

J. BRUCE CHITTENDEN, Tutor in Math.

Shattuck Scholar, Harv., '90-1; Kirkland Fel., '92-3; Ph.D., Königsberg, '93; Parker Fel., Harv., '93-4; Instr. Math., Princeton, '94-5.

Special Topics in Diff. and Integ. Calculus. iii, O.-F.

Theory of Invariants. iii, F.-My.

JAMES MACLAY, Instr. in Math.

C.E., Columbia, '88; Asst. in Math., same, '88-'91; Tutor, '91-6.

Analytical Theory of Curves of Double Curvature and Curved Surfaces. iii, O.-My.

JOHN E. HILL, Tutor in Math.

Diff. Equations and Applications. iii, F.-My.

Higher Plane Curves. iii, O.-F.

Columbia — Continued.

GEORGE H. LING, Asst. in Math.

A.B., Toronto, '93; Univ. Fel., '94; A.M., Columbia, '94.

Theory of Numbers. iii, O.-My.

CORNELL.

12 Graduate Students, 1895-6.

Several thousand vols. on pure math., math. physics and astron., besides the most important math. journals. Coll. of math. models. Fel. \$500 and 1 Grad. Schol. \$300 assigned to Dept. of Math. and Astron. Dept. Sem. meets fortnightly to study some specified math. theory of recent devel. Math. Club meets in two sections in alternate weeks. Sect. A is intended for those who have had Calculus, Sect. B for all other students of the Dept.

N. B. — Any course not desired at begin. of year by at least five students, properly prepared, may not be given. This announcement of courses is incomplete. Changes in the dept. are contemplated.

LUCIEN A. WAIT, Prof. of Math.

A.B., Harv., '70; Asst. Prof. of Math., Cornell, '70-7; Assoc. Prof., '77-91.

*Adv. Analyt. Geom. Lines of First and Second Orders. iii, 32.

*Adv. Analyt. Geom. Surfaces of First and Second Orders. ii, 32.

*Diff. Calculus (adv). iii, 32.

*Integ. Calculus (adv). ii, 32.

GEORGE W. JONES, Prof. of Math.

A.B., Yale, '59, and A.M., '62; Prof. Math., Iowa State Agr. Col., '68-73; Asst. Prof. Math., Cornell, '77-93; Assoc. Prof., '93-5. — Drill book in Alg., logarithmic tables, projective geom., Oliver, Wait and Jones's Math. text-books.

*Higher Algebra and Trig. ii, 32.

*Problems in Geom., Algebra and Trig. ii, 32.

JAMES MCMAHON, Asst. Prof. of Math.

A.B., Dublin, '81; Gold Medal Math.; A.M., '90; Instr. in Math., Cornell, '84-90. — Assoc. Ed. *Ann. of Math.*, mod. alg., higher plane curves.

Gen. Theory of Alg. Curves and Surfaces. Higher Plane Curves. iii, 32.

Gen. Theory of Alg. Curves and Surfaces. Curves and Surfaces. iii, 32.

[Ternary and General Quantics, with Applica. to Curves and Surfaces, iii, 32.]

Theoretical Mechanics. iii, 32.

Math. Theory of Sound, incl. General Theory of Vibrating Systems. iii, 32, for two years.

Theory of Funct. General Theory. iii, 32.

Theory of Funct. Elliptic, Abelian, and Automorphic. iii, 32.

Non-Euclidian Geom. ii, 32.

Math. Theory of Electricity and Magnetism. ii, 32.

Fourier's Series and Sph. Harmonics, with Applica. to Physical Probs. ii, 32.

JOHN H. TANNER, Asst. Prof. of Math.

A.B., Cornell, '91.

[In Europe, 1896-7.]

DANIEL A. MURRAY, Instr. in Math.

A.B., Dalhousie, '84; Tutor in Math., same, '85-7; Univ. Scholar, Johns Hopkins, '87-8, Fellow, '89-90, and Ph.D., '93; Assoc. Prof. of Math., Univ. of City of New York, '90-4. — Associate Equations of Linear Differential Equations.

Differential Equations. ii, 32.

Transformation Groups. iii, 32.

JOHN I. HUTCHINSON, Instr. in Math.

A.B., Bates, '89; Scholar and Fellow, Clark, '90-2; Fellow, Chicago, '92-4; Docent, Chicago, '94; Ph.D., Chicago, '95.

Theory of Substitution Groups. ii, 32.

JOSEPH ALLEN, Instr. in Math.

A.B., Harv., '92, and A.M., '94.

Binary Quantics. ii, 32.

VIRGIL SNYDER, Instr. in Math.

B.S., Iowa Agr. Col., '89; Fellow in Math., Cornell, '92-3; Ph.D., Göttingen, '94.

*Mod. Synthetic Geom., incl. Projective Geom. iii, 32.

Theory of Numbers. Congruences, Quadratic Residues and Quadratic Forms. ii, 32.

Theory of Numbers. Gen. Alg. Numbers. ii, 32.

HARVARD.

30 Graduate Students, 1895-6.

[Courses marked R are open to Radcliffe Graduate Students.]

JAMES M. PEIRCE, Prof. of Astron. and Math., and Dean of the Faculty of Arts and Sciences.

A.B., Harv. '53, and A.M., '56. — Logarithms, analyt. geom., etc.

R) Gen. Theory of Curves and Surfaces. iii, 30.

[Gen. Theory of Curves and Surfaces (2d course). iii, 30.]

*[Quaternions. iii, 30.]

R) Quaternions (2d course). iii, 30.

R) Special Devel. of the Calculus of Quaternions. ii, 30.

R) Mathemat. Lit. Research. i, 30.

[The Algebra of Logic. — ?]

[Linear Associative Algebra. — ?]

WILLIAM E. BYERLY, Prof. of Math.

A.B., Harv., '71, and Ph.D., '73; Asst. Prof. Math., Cornell; Asst. Prof. Math., Harv. — El. geom., diff. calculus, integ. calculus, spherical harmonics.

*Diff. and Integ. Calculus (2d course). iii, 30.

R) Probs. in the Mechanics of Rigid Bodies. ii, 30.

*Analyt. Mechanics. iii, 30. (With J. K. Whittemore, A.B.)

PROFS. BYERLY AND B. O. PEIRCE.

R) Trig. Series. Intro. to Spherical Harmonics. Potential Function. iii, 30.

BENJAMIN O. PEIRCE, Prof. of Math. and Nat. Philos.

A.B., Harv., '76; Ph.D., Leipzig, '79. — Potential function, arts on electricity, propagation of heat, *Emissionsspectra der Haloidverbindungen des Quecksilbers*, etc.

[Hydrostatics. Hydrokinematics. Force Functions and Velocity-Potential Functions and Uses. iii, 30.]

R) Theory of Surfaces. — ?

R) Elasticity. Research. — ?

[Methods in Math. Physics. — ?]

WILLIAM F. OSGOOD, Asst. Prof. of Math.

A.B., Harv., '86, and A.M., '87; Ph.D., Erlangen, '90. — Symbol. notation, system of two simultaneous ternary quadrat. forms.

*Infinite Series and Products. iii, 15, O.-Ja.

*[Higher Algebra. iii, 30.]

R) Theory of Functions (2d course). iii, 30.

R) Klein's Ikosaedron. Research. — ? [Theory of Substitutions. — ?]

MAXIME BÔCHER, Asst. Prof. of Math.

A.B., Harv., '88; Ph.D., Göttingen, '91. Instr. in Math., Harv., '91-3. — Math. theory of the potential.

*Theory of Equations. Invariants. iii, 15, F.-My.

*Mod. Meth. in Geom. Determinants. iii, 30.

*Theory of Numbers. i-ii, 30.

R) Theory of Functions (intro). iii, 30.

R) Bessel's Functions. i-ii, 30.

[Higher Diff. and Integ. Calculus. — ?]

[Linear Diff. Equations. — ?]

ASAPH HALL, Prof. of Math. (U. S. Navy).

A.M. (hon.), Harv., '79; Ph.D. (hon.), Hamilton, '78; LL.D., Yale, '79, and Harv., '86; Director U. S. Nav. Obs.

R) Celestial Mechanics. iii, 30.

JOHNS HOPKINS.

48 Graduate Students, 1895-6.

THOMAS CRAIG, Prof. of Pure Math.

Ph.D., Johns Hopkins, '79. — Ed. *Amer. Jour. Math.*

Partial Diff. Equations of First and Second Orders. iii, 30.

Johns Hopkins — Continued.

Theory of Surfaces and Lines Traced
on Surfaces. iii, 30.
Seminary. i, 30.

A. S. CHESSIN, Assoc. Prof. of Math.

A.M., Imperial Col., St. Petersburg, '79;
Ph.D., Univ. of St. Petersburg, '84.

El. Theory of Functions. ii, 30.
Theoret. Mechanics. ii, 30.

L. S. HULBURT, Assoc. in Math.

Ph.D., Johns Hopkins, '94.

Synthetic Geom. iii, 15.
Theory of Substitutions. iii, 15.

A. COHEN, Instr. in Math.

Ph.D., Johns Hopkins, '94.

Theory of Invariants. ii, 30.

LELAND STANFORD, JR.

3 Graduate Students, 1895-6.

ROBERT E. ALLARDICE, Prof. of Math.

A.M., Edinburgh, '82; Gray Scholar in Math.,
same, '82; Baxter Scholar in Math., '82-3;
Drummond Scholar in Math., '83-4; Asst.
Prof. Math., same, '83-'92.

Theory of Invariants. ii, 32.
Geom. of Three Dimensions. iii, 32.

CHARLES N. LITTLE, Prof. of Math.

A.B., Nebraska, '79; Ph.D., Yale, '85; Instr.
in Math. and Civil Eng., Nebraska, '80-4;
Assoc. Prof. of Civil Eng., '85-'90; Prof. of
Civil Eng., '90-3.

*Differential Equations. iii, 32.

RUFUS L. GREEN, Prof. of Math.

B.S., Indiana, '85, and A.M., '90; Instr. in
Math., '85-6; Prof. of Pure Math., '87-'93.

Higher Plane Curves. ii, 32.
Curve Tracing. ii, 32.

MICHIGAN.

11 Graduate Students, 1895-6.

WOOSTER W. BEMAN, Prof. of Math.

A.B., Mich., '70, and A.M., '73. — Algebra,
geometry, analytic geometry, calculus.

*Solid Analytic Geom. ii, 17, O.-F.

*Quaternions. iii, 17, F.-Jun.

*Teachers' Seminary. ii, 34, O.-Jun.

Solid Analytic Geom. ii, 17, F.-Jun.

Diff. Equations. iii, 17, O.-F.; ii, 17,
F.-Jun.

Math. Reading. iii, 34, O.-Jun.

FRANK N. COLE, Asst. Prof. of Math.

A.B., Harv., '82; Ph.D., same, '86; Lect. in
Math., same, '85-7. — Trans. of Netto's Theory
of Substitutions.

*Projective Geometry. iii, 34.

Theory of Complex Numbers. iii, 17,
O.-F.; ii, 17, F.-Jun.

ALEXANDER ZIWET, Asst. Prof. of Math.

C.E., Karlsruhe (Ger.), '80. — Co-ed. *Bull.*
Am. Math. Soc., Theoretical Mechanics.

Advanced Mechanics. ii, 17, O.-F.;
iii, 17, F.-Jun.

JAMES W. GLOVER, Instr. in Math.

B.L., Michigan, '92; A.B., Harv., '93, A.M.,
'94, and Ph.D., '95; Morgan Fel. in Math.,
Harv., '92-4. — Theory of Groups.

*Projective Geom. iii, 34.

Theory of Functions. iii, 34.

*Mod. Higher Algebra. iii, 17, F.-
Jun.

MINNESOTA.

6 Graduate Students, 1895-6.

JOHN F. DOWNEY, Prof. of Math.

B.S., Hillsdale, '70, M.S., '73, and A.M., '77;
C.E., Pa. State Col., '88; Prof. Math. Astron.
and Eng., Pa. State Col., '73-'80.

Determinations. ii, 24.

Coördinate Geometry (adv.) ii, 24.

Diff. Calculus (adv). ii, 24.
 Integ. Calculus (adv). ii, 24.
 Quaternions. ii, 24.
 Diff. Equations. ii, 24.
 Theory of Functions. ii, 36.

NEW YORK.

2 Graduate Students, 1895-6.

POMEROY LADUE, Prof. of Math.

B.S., Michigan, '90; Instr. in Math., Mich., '92-3.

Solid Analytic Geom., or Mod. Methods in Analytic Geom. ii, 30.

Diff. Equations, or Theory of Surfaces. ii, 30.

Adv. Diff. and Integral Calculus, or El. Theory of Functions. ii, 30.

NORTHWESTERN.

2 Graduate Students, 1895-6.

HENRY S. WHITE, Prof. of Pure Math.

A.B., Wesleyan, '82; Ph.D., Göttingen, '90.

*Theory of Equations. ii, 36.

*Diff. Equations. iii, 54.

Theory of Plane Curves of Third Order, with intro. to Elliptic Functions. ii, 60.

THOMAS F. HOLGATE, Prof. of Applied Math.

A.B., Victoria Col., Toronto, '84, and A.M., '89; Fel., Clark, '90-3, and Ph.D., '93.

*Modern Analytical Geom. iii, 90.

*[Modern Synthetic Geom. iii, 90.]

*Analytical Mechanics. ii, 60.

Theory of Numbers. ii, 30.

Mod. Synthetic Geom. (adv). ii, 30.

PENNSYLVANIA.

10 Graduate Students, 1895-6.

1 Scholarship of \$100, 1 Fellowship of \$600.

EDWIN S. CRAWLEY, Asst. Prof. of Math. and Sub-Dean of Col.

B.S., Univ. of Pa., '82; Instr. Civ. Eng., '82-5; Instr. Math., '85-9; Ph.D., '92. — El. of Trig.

Higher Plane Curves. ii, 30.
 [Theory of Numbers. ii, 30.]
 Hist. of Math. i, 30.

GEORGE E. FISHER, Asst. Prof. of Math.

Ph.D., Univ. of Pa., '95.

Diff. Equations. ii, 30.

Potential Functions and Spher. Harmonics. ii, 30.

Invariants and Covariants. ii, 30.

Theory of Functions. ii, 30.

Ellip. Functions. ii, 30.

ISAAC J. SCHWATT, Instr. in Math.

Ph.D., Univ. of Pa., '93. — Bessel's Functions, Isogonal Curves.

Modern Geom. ii, 30.

Definite Integrals. ii, 30.

Linear Diff. Equations. i, 30.

Abelian Functions. ii, 30.

PRINCETON.

4 Graduate Students, 1895-6.

H. B. FINE, Prof. of Math.

A.B., Princeton, '80; Ph.D., Leipzig, '85; Tutor, Asst. Prof. and Prof. of Math., Princeton. — Singularities of curves of double and multiple curvature, diff. equations, number system of algebra.

Theory of Functions. ii, 16, S.—Ja.

Elliptic Functions. ii, 16, F.—My.

Theory of Numbers and Higher Algebra. ii, 32.

Higher Metrical Geom. ii, 32.

H. D. THOMPSON, Prof. of Math.

A.B., Princeton, '85; Sc.D., same; Ph.D., Göttingen; Fel., Johns Hopkins, '86-7. — Zero-value of ellipt. theta-function, pencils of conics, hyper-elliptic functions, Euclid.

*Higher Plane Curves. ii, 32.

*[Analyt. Geom. of Three Dimensions. ii, 32.]

J. M. BROOKS, Instr. in Math.

A.B., Princeton, '89, and A.M., '91.

Diff. Equations, and Lie's Transformation Theory. ii, 32.

RADCLIFFE.

o Graduate Students, 1895-6.

[See Harvard Courses marked R.]

W. F. OSGOOD.

- *Diff. and Integ. Calculus (adv). iii, 30.
- *Infinite Series and Products. i, 30.

MAXIME BÔCHER.

- *Theory of Equations. Invariants. i, 30.
- *Theory of Numbers. i, 30.

-
- *[Mod. Methods in Geom. Determinants. iii, 30.]

TULANE.

11 Graduate Students, 1895-6.

WILLIAM B. SMITH, Prof. of Math.

A.M., Kentucky, '71; Ph.D., Göttingen, '79; Prof. Math., Central Col. Mo. '81-5; Prof. Physics, Univ. of Mo., '85-8, and Prof. Math., '88-93; Prof. Math., Tulane, '93.—Coördinate geom., modern geom., trigonometry, infinitesimal analysis, economics, philosophy, biblical criticism.

- Theory of Functions. Complex Argument. iii, 36.
- Diff. Equations. iii, 36.
- Mod. Analyt. Geom. ii, 36.

BROWN AYRES, Prof. of Physics and Dean of College of Tech.

Ph.D., Stevens Inst., '88; Fel., Johns Hopkins, '79-'80; Prof. Physics, University of La., '80-4.

- Theoretical Electr. Eng. iii, 32.
- Alternating Electr. Currents. iii, 32.
- Electr. and Magnetism. iii, 32.

W. H. P. CREIGHTON, Prof. of Mechan. Eng.

Grad. U. S. Naval Acad., '82; Asst. Eng., U. S. N., '84; Prof. Mechan. Eng., Purdue, '87-'91; Prof. Mechan. Eng., Tulane, '94.

- Courses in Theory and Applica. of Math. to Engineering. —?

VANDERBILT.

6 Graduate Students, 1895-6.

W. J. VAUGHN, Prof. of Math.

A.B., Univ. Ala., '57, and A.M., '60; Tutor Math., same, '57-'60; Prof. Math., '63-5; Prof. Physics and Astron., '71-3; LL.D., Univ. Miss., '83.

- Theory of Equations. iii, 16, O.-Ja.
- Quantics. iii, 8, F.-Mar.
- Modern Geom. iii, 8, Ap.-My.
- Theory of Numbers. iii, 16, O.-Ja.
- Theory of Functions. iii, 16, F.-My.

WELLESLEY.

1 Graduate Student, 1895-6.

ELLEN HAYES, Prof. of Math.

A.B., Oberlin, '78.

- *Dynamics. Celestial Mechanics. iii, 35.
- *Method of Least Squares. Perturbations. iii, 35.
- *Principles of Inference. i, 35.

EVA CHANDLER, Assoc. Prof. of Math.

A.B., Mich., '78.

- *Theory of Equations, with Determinants. iii, 17, S.-Ja.
- *Solid Analyt. Geom. iii, 17, F.-Jun.
- *Diff. Equations. iii, 35.

ELLEN L. BURRELL, Assoc. Prof. of Math.

A.B., Wellesley '80.

- *Projective Geom. iii, 35.

WESTERN RESERVE.

o Graduate Students, 1895-6.

C. J. SMITH, Prof. of Math.

A.M., West. Res. Col., '73; Prof. of Math., same, '70-'82; Prof. of Math., Adelbert, '82.

- *Diff. and Integ. Calculus. iii, 33.
- *Analytic Geom. iii, 16, S.-F.
- *Theory of Equations. iii, 17, F.-Jun.

A. H. PALMIÉ, Prof. of Math.

Ph.B., Cornell, '90; Fellow in Math., same, '90-1; Instr. in Math. and German, Col. for Teachers, N. Y., '91-2; Instr. in Math., Col. for Women, W. R. U., '92.

*Projective Geom. iii, 17, F.-Jun

*Quaternions. iii, 17, F.-Jun.

Higher Plane Curves. iii, 16, S.-F.

Theory of Functions. iii, 17, F.-Jun.

Diff. Equations. iii, 16, S.-F.

WISCONSIN.

4 Graduate Students, 1895-6.

CHARLES A. VAN VELZER, Prof. of Math.

B.S., Cornell, '76; Instr. in Math., same, '76-7; Fel. in Math., Johns Hopkins, '78-81; Ph.D., same; Instr. in Math., Wisconsin, '81; Asst. Prof., '83-5.

*Diff. Equations. iii, 36.

*Analyt. Geom. of Two Dimensions. iii, 36.

*Analyt. Geom. of Three Dimensions. ii, 36.

*Modern Algebra. ii, 36.

[Theory of Functions. iii, 36.]

Theory of Groups. ii, 36.

CHARLES S. SLICHTER, Prof. of Applied Math.

M.S., Northwestern, '85; Instr. in Math., Wisconsin, '86-9; Asst. Prof., '89-'92.

*Theoretical Mechanics. iii, 36.

*Potential Theory. ii, 36.

[Partial Diff. Equations of Math. Physics. ii, 36.]

Theoretical Hydrodynamics. ii, 36.

*Theory of Probability. ii, 18, F.-Jun.

E. B. SKINNER, Asst. Prof. of Math.

A.B., Ohio Univ., '88.

Quaternions (intro). ii, 36.

S. WAYLAND DOWLING, Instr. in Math.

Scholar and Fellow, Clark, '92-5; Ph.D., same, '96.—On the Forms of Plane Quintic Curves.

*Diff. and Integral Calculus (adv). ii, 18, S.-F.

*Theory of the Singly Periodic Function. ii, 18, F.-Jun.

YALE.

26 Graduate Students, 1895-6.

Math. Club holds fortnightly meetings. Hill-house Math. Coll., 3,000 vols.

H. A. NEWTON, Prof. of Math.

A.B., Yale, '50; LL.D., Mich., '68.—*Meteors, comets, temperature, metric system, transcendental curves.*

Analytical Statics. —?

Integral Calculus and Mechanics. iii, 32.

J. E. CLARK, Prof. of Math.

A.B., Mich., '56; A.M., Yale, and Mich., '75; Prof. of Math., Antioch.

Determinants and Diff. Equations. ii, 32.

J. W. GIBBS, Prof. of Math. Physics.

A.B., Yale, '58; Ph.D., same, '63; LL.D., Williams, '93.—*Thermodynamics, theory of light, vector analysis.*

Vector Analysis. ii, 12, O.-D.

Vector Analysis (adv). ii, 20, Ja.-Jun.

Miscellaneous Applica. of Vect. Anal. i, 32.

Electro-Magnetic Theory of Light. ii, 32.

Dynamics and Thermodynamics. i, 32.

[Multiple Algebra. —?]

[Thermodynamics and Properties of Matter. —?]

[Electricity and Magnetism. —?]

J. P. PIERPONT, Asst. Prof. of Math.

Ph.D., Vienna, '94.—*Galoisian theory of equations, theory of elliptic functions.*

Higher Analysis (intro). iii, 32.

Theory of Linear Diff. Equations. ii, 32.

Elliptic Functions. ii, 32.

Yale — Continued.

P. F. SMITH, Asst. Prof. of Math.

Ph.B., Yale, '88, and Ph.D., '91.

Theory of Plane Curves. —?

Surfaces and Curves in Space. —?

A. W. PHILLIPS, Prof. of Math., and
Dean of Graduate School.

Ph.B., Yale, '73, and Ph.D., '77. — Orbits,
math. curves and their graphic representa-
tion, esp. by machines.

*Analytical Geometry. ii, 32.

JOSEPH BOWDEN, Tutor in Math.

A.B., Yale, '91.

Higher Algebra. ii, 32.

W. M. STRONG, Tutor in Math.

A.B., Yale, '93; A.M., Cornell, '94.

*Modern Geometry (cl). ii, 32.

C. B. RICHARDS, Prof. of Mechan. Eng.

A.M., Yale, '84. — Exper. on resist. of stones to
crushing, warming and ventilation of
houses, etc.

Applied Mechanics. —?

Thermodynamics. —?

Machine Design. —?

A. J. DUBOIS, Prof. of Civ. Eng.

Ph.B., Yale, '69, C.E., '70, and Ph.D., '73;
Prof. of Eng., Lehigh. — El. of graphic statics,
hydraulics, hydr. mot., and steam engine.

Mechanics Applied to Engineering.
—?

Construction and Design in Civ. Eng.
—?

S. E. BARNEY, Asst. Prof. of Civ. Eng.

Ph.B., Yale, '79, and C.E., '85.

*Railway Surveying. 3 wks. in Sept.

WM. BEEBE [see 13].

*Surveying. iii, 16, F.—Jun.

E. L. RICHARDS, Prof. of Math.

A.B., Yale, '60, and A.M., '67.

*[Navigation and Nautical Astronomy.
ii, 32.]

13. ASTRONOMY.**BROWN.**

1 Graduate Student, 1895-6.

WINSLOW UPTON, Prof. of Astron. and
Dir. of Ladd Observ.

A.B., Brown, '75; A.M., Cincinnati, '77;
Asst., Harv. Col. Observ., '77-9; Asst.,
Engin., U. S. Lake Survey, '79-80; Com-
puter and Jun. Prof. of Meteorol., U. S. Sig.
Office, '81-3.

*Practical Astron. (adv). iii, 33.

[Individual courses may be arranged for.]

CALIFORNIA.

5 Graduate Students, 1895-6.

*The Lick Observatory, with its facilities for
advanced astronomical work, is a depart-
ment of the University. A limited number
of graduate and special students are ad-
mitted there. At Berkeley there is a stu-
dents' observatory and the following courses
will be given. Hearst Fel. in Astronomy.*

ARMIN O. LEUSCHNER, Asst. Prof. of
Astron. and Geodesy.

A.B., Michigan.

*Practical Astronomy (adv). i, 32.

*Hist. of Astronomy. iii, 16, Au.—D.

*Method of Least Squares. ii, 16,
Au.—D.

*[Mechanical Quadratures. iii, 16, Ja.—
My.]

*Interpolation. iii, 16, Ja.—My.

*Theoretical Astron. iv, 32.

Theoretical Astron. (adv). ii, 32.

CHICAGO.

—? Graduate Students, 1895-6.

*Besides instruction at the University, Gradu-
ate and research work will be conducted in
the Yerkes Observatory at Lake Geneva,
Wis., to be opened in the autumn of 1896.
3 Fellowships.*

T. J. J. SEE, Instr. in Astronomy.

A.B., Missouri Univ., '89, and A.M., '92;
Ph.D., Berlin, '92.

Theory of Attractions, and Figures of
Heavenly Bodies. iv, 12, Ap.-Jun.

Theory of Absolute Perturbations. iv,
12, Ja.-Mar.

Theory of Secular Variations and of
Long-period Inequalities. iv, 12,
Ap.-Jun.

Special Research Course. iv, 12, O.-D.

KURT LAVES, Asst. in Astronomy.

Ph.D., Berlin, '92; Asst., Royal Observatory,
Berlin, '93.

Analytic Mechanics. iv, 24, O.-Mar.

Problem of Three Bodies and Devel.
of Perturbing Functions. —? Jul.-
Au.

Observatory Work. —? Ap.-Jun.

*Work at Yerkes Obs., to be conducted by
the following instructors:*

SHERBURNE W. BURNHAM, Prof. of Pract.
Astron.

A.M., Yale, '78; Obs. at Dearborn Obs.,
'77-'81; Obs. at Washburn Obs., '81-'2;
Astron., Lick Obs., '88-'92. — Assoc. Ed.
Astronomy and Astro-Physics.

EDWARD E. BARNARD, Prof. of Pract.
Astron.

A.M. (hon.), Univ. of Pacific, '89; Sc.D.,
Vanderbilt, '93; in charge Vanderbilt Obs.,
'83-'7; Astron., Lick Obs., '87-'95.

GEORGE E. HALE, Assoc. Prof. of Astro-
Physics and Dir. of the Obs.

S.B., Mass. Inst. Tech., '90; Dir. Kenwood
Astro-Physical Obs., '90; Prof. of Astro-
Physics, Beloit, '91; Lect. in Astro-Physics,
Northwestern, '91.

F. L. O. WADSWORTH, Asst. Prof. of
Astro-Physics.

E.M., Univ. of Ohio, '88; S.B., and M.E.,
'89; Asst. in Physics, same, '89; Fel. in
Physics, Clark, '89-'90; Asst. in Physics,
same, '90-'1; Senior Asst., Washington Astro-
Physical Obs., '93-'4.

FERDINAND ELLERMAN, Asst. in the Obs.

COLUMBIA.

o Graduate Students, 1895-6.

*Astron. Obs. contains a 40-in. transit; com-
bined transit and zenith instrument; an
equatorially mounted refractor of 5-in.
apert., with spectroscope; a diffraction spec-
troscope with grating; an equat. diffracting
telescope of 13-in. apert. with correcting
lens for photographic work; sidereal and
mean-time clocks; measuring and photo-
graphic machines.*

JOHN K. REES, Prof. of Astron. and
Director of Obs.

A.M., E.M., Columbia, '75; Ph.D., Asst. in
Math., Columbia, '72-'6; Prof. of Astron.,
Wash. Univ., '76-'81; Prof. Prac. Astron. and
Geodesy, Columbia, '81-'92. — Ed. *School
of Mints Quarterly*, '82-'8, solar eclipses,
comets and meteors, Rutherford reductions.

*Spher. and Pract. Astron. ii, and obs.
O.-My. (With Dr. Davis.)

*Geodesy. ii, 1½ yrs. (With Prof.
Jacoby and Dr. Davis.)

Spher. and Pract. Astron. (adv.) ii,
and obs., 2 yrs. (With Prof. Jacoby.)

HAROLD JACOBY, Adj. Prof. of Astron.

A.B., Columbia, '85; Asst. Astron., U. S.
Eclipse Exped. to W. Africa, '89-'90. — Ed.
Bull. N. Y. Math. Soc., photographic meas-
ures, comets, calculation of star places.

Theoretical Astron. i, and computa-
tions, 2 yrs.

Reduction of Photographic Star Plates.
i, and practical work, 2 yrs.

CORNELL.

3 Graduate Students, 1895-6.

1 Fel. \$500 and 1 Grad. Schol. \$300 assigned
to Dept. Math. and Astron.

ESTEVAN A. FUERTES, Director of Col.
of Civil Eng. and Prof. of Civil Eng.

Director N. Y. State Weather Bureau. —
Municipal and govt. reports.

*Spherical Astron. Observations. ii, 12.

D. A. MURRAY [see 12].

*Descriptive Astron. ii, 32.

*Physical and Math. Astron. ii, 32.

HARVARD.

o Graduate Students, 1895-6.

Astronom. Obs. founded for scientific research, equipped with instruments of the first class, a lib. of 20,000 books and pamphlets; has funds for maintenance, increase and pub. In the Henry Draper memorial dept. an extensive study of spectra, and other phys. props. of stars is carried on. Boyden fund sustains observations at great elevation. Photogr. study of stars especially provided for. Facilities freely offered to astronomers; also sometimes to special students in astron., who should apply to Prof. E. C. Pickering, Director.

ROBERT W. WILLSON, Instr. in Astron.

A.B., Harv., '73; Ph.D., Würzburg, '86. — Notes on light.

*Practical Astron. Use of Instruments. iii, 30.

JOHNS HOPKINS.

16 Graduate Students, 1895-6.

The Department is conducted on plans outlined by Prof. Simon Newcomb, who acts as general adviser. Equipment consists of an equatorial telescope of 9½ inches aperture, a meridian circle of 3-in. aperture with circle 2 ft. in diam. reading to seconds, a small meridian transit instrument, and several others.

C. L. POOR, Assoc. in Astron.

Ph.D., Johns Hopkins, '92.

Computation of Orbits and Ephem. iii, 15.

Special Perturbations. iii, 15.

Theor. and Pract. Astron. (general course). iii, 30.

Astron. Computa. i, 30.

Astron. Seminary. ii, 30.

Pract. work with instrum. —? 30.

DR. CHESSIN [see 12].

Celestial Mechanics. iii, 30.

MICHIGAN.

4 Graduate Students, 1895-6.

"Detroit" Observ. provided with Fitz 13-in. refract. telescope, meridian circle, sid. clock. Special obs. for instruction.

ASAPH HALL, JR., Prof. of Astron. and Dir. of Obs.

Ph.B., Yale, '88, and Ph.D., '89; Asst. Naval Obs., '82-5; Asst. Astron., Yale, '85-9; Asst. Astron., Naval Obs., '89-92. — Observations of satellites and discussion of observations.

Computation of Orbits, Special Perturbations, and Correction of Orbits. v, 34, O.-Jun.

Math. Theory of Planetary Motions. ii, 17, O.-F.

Use of Instruments. 17, O.-F.

SIDNEY D. TOWNLEY, Instr. in Astron.

B.S., Wisconsin, '90, and M.S., '92. — Obs. of Telescopic Variables of Long Period, Variable Stars of Long Period, Photographic Observations of Algol.

*Least Squares and Empir. Curves. ii, 17, O.-F.

Spherical Astron. iii, 34.

MINNESOTA.

2 Graduate Students, 1895-6.

FRANCIS P. LEAVENWORTH, Asst. Prof. of Astron. and Dir. of Obs.

A.B., Indiana, '80, and A.M., '87; Asst. Prof. Astron., Univ. of Va., '88; Dir. Obs., Haverford.

Practical Astronomy. iv, 36.

Computation of Orbits. iv, 36.

Astro-Photography. iv, 36.

Astro-Physics. iv, 36.

*Practical Astronomy (el). iv, 12.

NORTHWESTERN.

o Graduate Students, 1895-6.

BURLEIGH S. ANNIS, Instr. in Math.

A.B., Colby., '85, and A.M., '88; Fel., Johns Hopkins, '92-3.

*Spherical Astronomy. iii, 90.

PENNSYLVANIA.

2 Graduate Students, 1895-6.

Flower Observatory consists of an equatorial, and meridian building, and the residence of the Director containing the Astron. Lib. and computa. rooms for orig. investigators. The princ. instruments are an

equatorial, 18-in. aperture with spectro-scope, a meridian circle and zenith telescope, each of 4-in. aperture, and a 3-in. universal transit. Plan of Grad. work includes systematic obs. of comets and small planets, investigations of variations of latitude, and spectroscopy. 1 Fellowship of \$600.

CHARLES L. DOOLITTLE, Prof. of Math. and Astron.

C.E., Univ. of Mich., '74; Prof. of Math. and Astron., Lehigh, '75-'95. — Pract. Astron.

Pract. Astron. iii, 30.

Theoret. Astron. iv, 30.

Astro-Physics. ii, 30.

PRINCETON.

1 Graduate Student, 1895-6.

Halstead Obs. appropriated to scientific work, esp. in astro-physics. Equatorial, 23-in. aperture, made by Clark. Highest power spectroscope fitted for visual and photographic work. Obs. of instruct. devoted to use of students, contains 0.8-in. aperture Clark equatorial, besides full complement of other instruments.

C. A. YOUNG, Prof. of Astron.

A.B., Dartmouth, '53; Ph.D., Univ. of Pa., '69; Ph.D., Hamilton, '70; LL.D., Wesleyan, '76; Prof. of Math. and Astron., W. Res., '57-'66; Prof. Nat. Philos. and Astron., Dartmouth, '66-'77. — The sun, general astron., papers on spectroscopy and astron.

Theoret. Astronomy. i, 32.

TAYLOR REED, Asst. Prof. of Astron.

A.B., Princeton, '86, and A.M., '87.

Pract. Astronomy. ii, 32.

RADCLIFFE.

1 Graduate Student, 1895-

The Officers of the Observatory desire to encourage individual work, and to that end will advise students in their subsequent investigations and secure the publication of any valuable results. Instruction is under direction of Prof. Pickering.

ARTHUR SEARLE.

*Descriptive Astronomy. iii, 30.

J. R. EDMANDS.

*Preparatory Pract. Astron. iii, 30.

*Instruments, Measurements, and Methods of Precision. i, 30.

VANDERBILT.

1 Graduate Student, 1895-6.

W. J. VAUGHN [see 16].

Celestial Mechanics. iii, 12, O.-D.

Theoret. Astron. iii, 20, Ja.-My.

Observatory Pract. iii, 32.

WELLESLEY.

0 Graduate Students, 1895-6.

ELLEN HAYES [see 12].

*Theoretical Astron. Determination of Orbits. iii, 35.

WISCONSIN.

2 Graduate Students, 1895-6.

Graduate Students and others desiring to pursue adv. astron. studies are received in Washburn Obs. as assts. and take part in regular observations with equatorial telescopes or meridian circle. Facilities for original work are afforded to such students, and valuable results will be printed in publications of the Obs. Hours and amt. of work determined by conf. bet. instr. and students.

GEORGE C. COMSTOCK, Prof. of Astron. and Director of Washburn Obs.

Ph.B., Mich., '77; Asst. in Ann Arbor Obs., '77-'8; Asst. in Washburn Obs., '79-'83; Prof. Math. and Astron., '85-7.

*Gen. Astron., with spec. ref. to mod. devel. in Astro-Physics.

*Obs. Work and Methods.

*Theoretical Astronomy.

YALE.

5 Graduate Students, 1895-6.

H. A. NEWTON [see 12].

Shooting Stars and Meteors. i, 32.

Yale — Continued.

WM. BEEBE, Asst. Prof. of Math. and Astron.

A.B., Yale, '73. — Comets' orbits, graphic algebra, mechanics.

*Descriptive Astron. iii, 16, O.-F.

*Practical Astron. ii, 32.

S. E. BARNEY [see 12].

Geodesy and Pract. Astron. — ?

14. PHYSICS.

[See also 12 and 13.]

BARNARD.

2 Graduate Students, 1895-6.

ERNEST R. VAN NARDROFF.

E.M., Columbia.

Wave Theory of Light. iii, 30.

BROWN.

4 Graduate Students, 1895-6.

CARL BARUS, Prof. of Physics.

Ph.D., Würzburg, '80; Physicist, U. S. Geol. Survey, '80-'92; Prof. of Meteorol., U. S. Weather Bureau, '92-3; Physicist, Smithsonian Inst., '93-5.

*Lab. Course (adv). iii, 33.

*Harmonic Anal. — ? 21, Ja.-Jun.

Behavior of Matter through Long Ranges of Temperature.

Behavior of Matter through Long Ranges of High Pressure.

Absolute Viscosity of Solids as Compared with Liquids and Gases.

Physical Properties of Iron Carburets.

[Time in last four courses arranged according to needs of students. All the work is original research.]

ALBERT DE F. PALMER, Instr. in Physics.

B.P., Brown, '91, and Ph.D., '95.

*Dynamics. iii, 12, S.-D.

*Thermodynamics. iii, 11, Ja.-Mar.

*Hydrodynamics. iii, 10, Ap.-Jun.

*Lab. Course (adv). (With Prof. Barus.)

BRYN MAWR.

6 Graduate Students, 1895-6.

1 Fellowship, \$525.

ARTHUR S. MACKENZIE, Assoc. Prof. of Physics.

A.B., Dalhousie, '85; Tutor in Math., '87-9; Fel., Johns Hopkins, '90-1; Ph.D., same, '94.

Theory of Sound, Problems in Heat Conduction. iii, O.-F.

*Theory of Optical Instruments. ii, O.-F.

*Spectrum Analysis and Polarization. ii, F.-Jun.

EDGAR BUCKINGHAM, Assoc. in Physics and Phys. Chem.

A.B., Harv., '87; Asst. in Physics, '88-9; Asst. in Physics, Univ. of Strasburg, '89-90; Asst. in Physics, Harv., '91-2; Tyndal Schol., Harv., '92-3; Ph.D., Leipzig, '93.

Thermodynamics. ii, O.-F.

DRS. MACKENZIE AND BUCKINGHAM.

Seminary. Monthly.

Journal Meeting. iii, monthly.

CALIFORNIA.

— ? Graduate Students, 1895-6.

FREDERICK SLATE, Prof. of Physics.

B.S., Brooklyn Polytechnic.

Laboratory Research. — ?

Dynamics of Rotation. — ?

Readings and Discussions. — ?

WILLIAM J. RAYMOND, Instr. in Physics.

*Absolute Electr. Measurements. —?

*Harmonic Motion. —?

E. P. LEWIS, Instr. in Physics.

Ph.D., Baltimore.

*Spectroscopy. —?

CHICAGO.

—? Graduate Students, 1895-6.

1 Fellowship.

ALBERT A. MICHELSON, Head Prof. of Physics.

Instr. in Phys. and Chem., U. S. Naval Acad., '75-9; Ph.D. (hon.), West. Reserve, '86; Prof. Phys., Clark, '89-'92.

Special Grad. Course. iv, 36, O.-Jun.
Graduate Lab. Course. x, 48, Jul.-Jun.

Research Course. vi, 12, Jul.-S.

Spectrum Analysis. iv, 6, Jul.-Au.; also O.-N.

Applica. of Interference Methods. iv, 6, Jul.-Au.; also Ja.-F.

Velocity of Light. iv, 6, Au.-S.; also F.-Mar.

SAMUEL W. STRATTON, Assoc. Prof. of Physics.

S.B., Univ. of Ill., '85; Instr. in Math. and Phys., same, '85-8; Asst. Prof. of Phys., '88-'90; Prof. of Phys., '90-2; in charge Dept. Electrical Engineering, '91-2.

*Gen. Physics (adv). v, 12, Ap.-Jun.

Lab. Practice (adv). x, 12, Ap.-Jun.

Physical Manipulation. x, 24, Jul.-D.

Lab. Methods. x, 12, Ja.-Mar.

Gen. Physics (Teachers' Course). v, 12, Jul.-S.

LOUIS A. BAUER, Docent in Math. Physics.

C.E., Cincinnati, '88, and M.S., '94; Ph.D., Berlin, '95; Computer in U. S. Coast and Geodetic Survey, '87-'92.

Math. Theory of Electr. and Magnetism. v, 12, Jul.-S.

*Gen. Physics (adv). v, 12, O.-D.; also Ja.-Mar.

Lab. Practice. x, 24, O.-Mar.

Reduction of Observations. v, 12, Ja.-Mar.

CLARK.

6 Graduate Students, 1895-6.

Two Fels. \$600 each, two \$400 each; two Schols. \$200 each, two \$100 each. Lab. open daily from 8 to 6. Research by each student under personal direction of the professor.

ARTHUR G. WEBSTER, Asst. Prof. of Physics.

A.B., Harv., '85; Instr. in Math., '85-6; Parker Fellow, '86-9; Ph.D., Berlin, '90.

Dynamics. General Methods, Canonical Equations, Systems of Particles, Rigid Bodies. 50 lects.

Newtonian and Logarithmic Potential Functions. Attraction of Ellipsoids. 20 lects.

Elasticity. 30 lects.

Hydrodynamics, Vortex and Wave Motion, Dynamical Basis of Sound and Light. 15 lects.

Electricity and Magnetism. 60 lects.

[Dynamics of Cyclic and Oscillatory Systems, with Applications to Theory of Electricity, Sound and Light. 25 lects.]

[Optics, Physical and Geometrical. Elastic and Electromagnetic Wave Theories. 50 lects.]

[Thermodynamics, Thermo- and Electro-Chemistry. 30 lects.]

[Kinetic Theory of Gases. 10 lects.]

[Partial Differential Equations of Mathematical Physics. 55 lects.]

Colloquium. Discussions and Reports. Weekly.

COLUMBIA.

8 Graduate Students, 1895-6.

The dept. offers twenty additional laboratory courses. John Tyndall Fel. \$408, Barnard Fel. \$500, for research here or abroad.

Columbia — Continued.

ROBERT S. WOODWARD, Prof. of Mechanics.

Theoretical Mechanics (adv). ii, O.—My.

Theory of the Potential Function. ii, O.—My.

Geodynamics. ii, O.—My.

Mathematical Theory of Elasticity. ii, O.—My.

OGDEN N. ROOD, Prof. of Physics

A.B., Princeton, '52. — Color, etc.

*Sound. ii, and lab. vi, O.—F.

*Magnetism and Electricity. ii, and lab. vi, F.—My.

*Light. iii, and lab. iv, O.—F.

*Heat. iii, and lab. iv, F.—My.

WILLIAM HALLOCK, Adj. Prof. of Physics.

A.B., Columbia, '79; Ph.D., Würzburg, '81; Ph.D., Nat. Col. of Phar., Wash., '92; Asst. in Lab., Würzburg, '80-2; Physicist U. S. Geol. Survey, '82-91; Prof. of Physics, Columbian, '84-6; Adj. Prof., Columbia, '92. — Specific gravity, polarization, flow of solids, photography of vocal action, solar magnetism.

*Electricity. ii, and lab. viii, O.—F.

*Exact Electr. Measurements. ii, and lab. viii, F.—My.

Constructing and Designing Apparatus. i, O.—F.

Undulatory Theory of Light. ii, F.—My.

MICHAEL I. PUPIN, Adj. Prof. of Mechanics.

A.B., Columbia, '83; Ph.D., Berlin, '89; Tyndall Fel. in Science; Instr. in Math. Physics and E. E., Columbia, '90-2; Adj. Prof. in Mech., '92.

*Thermodynamics. iii, O.—F.

*Theory of Dynamo and Motor (intro). iii, O.—F.

*Theory of Direct Current Dynamo and Motor. iii, F.—My.

*Theory of Alternators and Transformers. iii, O.—F.

*Theory of Variable Currents. iii, F.—My.

Maxwell's Theory of Electr. and Magnetism. ii, O.—My.

Theory of Bessel's Functions and Spherical Harmonics. i, O.—My.

Thermodynamics. ii, O.—My.

Theoretical Electr. Engineering (adv). iii, F.—My.

Theory of Oscillations. ii, O.—My.

J. C. PFISTER, Tutor in Mechanics.

A.B., Columbia, '89, and A.M., '90.

*Thermodynamics (el). ii, O.—F.

*Theoretical Mechanics. ii, O.—My.

HERSCHEL C. PARKER, Tutor in Physics.

Ph.B., Columbia, '90; Fel. in Physics and Asst. Instr., same, '90-1; Asst., '91-3; Tutor, '93.

*Electrical Manipulation. i, O.—F.

*Theoret. Comparison of Electr. Methods. ii, F.—My.

REGINALD GORDON, Tutor in Physics.

*The Steam Engine. i, F.—My.

CORNELL.

20 Graduate Students, 1895-6.

Franklin Hall is devoted exclusively to Physics. For magnetic and other measurements by the magnetic needle, there is a special building free from iron. There is also a special lab. of electrical engineering in the Franklin Hall Annex. The dept. issues the "Physical Review." 1 Fel. \$500, 1 Grad. Schol. \$300.

EDWARD L. NICHOLS, Prof. of Physics.

B.S., Cornell, '75; Ph.D., Göttingen, '79; Fellow, Johns Hopkins, '79-80; Prof. Physics and Chemistry, Central Univ., '81-3; Prof. Physics and Astron., Univ. of Kansas, '83-7. — "Ueber das von glühendem Platin ausgestrahlte Licht," Manual of Lab. Practice, Experimental Physics, Ed. *Physical Review*.

*Spectroscopy (adv). iii, 32.

*Seminary. Readings, discussions, and reports. ii, 32.

GEORGE S. MOLER, Asst. Prof. of Physics.

B.M.E., Cornell, '75; Instr. in Physics, same, '75-80. — Exper. physics, photog.

*Photog. (adv.), with esp. ref. to research. ii, 32.

*Heat and Applied Electricity. Lab. ii, 32.

ERNEST C. MERRITT, Asst. Prof. of Physics.

M.E., Cornell, '86; Fellow in Physics, '86-7, '88-9; Instr., '89-92. — Lab. Manual, etc.

*Lab. Pract. in General Physics (adv). iii-vi, 32.

*Thermometry and Calorimetry. iii, 32.

FREDERICK BEDELL, Asst. Prof. of Physics.

A.B., Yale, '90; Fellow in Electrical Eng., Cornell, '91-2, and Ph.D., '92; Instr., '92-3. — Alternating Currents, etc.

*Magnetism of Iron. ii, 12, O.-D.

*Theory of Electricity and Magnetism. ii, 32.

*Theory of Alternate Currents. ii, 20, Ja.-Jun.

*Absolute Meas. in Electr. and Magn. Lab. iii, 32.

FREDERICK J. ROGERS, Instr. in Physics.

B.S., Kansas State Agr. Col.; M.S., Cornell, '91.

*Thermodynamics. ii, 32; also i, 32.

CHARLES P. MATTHEWS, Instr. in Math.

M.E. (in Electr. Eng.), Cornell, '92.

*Theory of Dynamo and Motor. ii, 9, Ap.-Jun.

*Application of Photometry to Electric Lighting. i-ii, Ja.-Mar.

JOHN S. SHEARER, Instr. in Physics.

B.S., Cornell, '93; Asst. in Physics, '93-4.

*Theory of Light (adv). iii, 32.

HARVARD.

11 Graduate Students, 1895-6.

[Courses marked R are open to Radcliffe Graduate Students.]

Jefferson Physical Lab. devoted to instruction and research. Isolated tower for investigations requiring great stability or height. Non-magnetic, constant temp. and photogr. rooms. Tyndall Fel. of \$500.

JOHN TROWBRIDGE, Prof. of Physics, and Dir. of the Physical Lab.

S.B., Harv., '65; Sc.D., same, '73. — The New Physics, electr. cond. of gas flames, Ohm's Law, electromagnet, galvanometer, etc.

*Light. i, 30.

Electrodynamics. Lab. ix, 30.

Spectrum Anal. and the Electromagnetic Theory of Light. Research. xii, 30.

*Electrodynamics, Magnetism, and Electromagnetism. ii, 30. (With Asst. Prof. Sabine and an Asst.)

EDWIN H. HALL, Prof. of Physics.

Ph.D., Johns Hopkins, '81. — Effect of magn. force on the equipotential lines of an electric current ("Hall effect"), thermal conductivity, nickel and iron, cylinder condensa. in steam engines, etc.

*Els. of Thermodynamics. ii-iii, 15, O.-Ja.

*Mod. Devel. of Thermodynamics. ii-iii, 15, F.-My.

R) Theory of Probability and Kinetic Theory of Gases. —?

Electromagnetism and Heat Conduction. Research. —?

BENJAMIN O. PEIRCE [see 12].

R) Portions of the Math. Theory of Electricity and Magnetism. iii, 30.

R) Probs. in Math. Physics. Research. —?

*Electrostatics, Electrokinematics, and parts of Electromagnetism. i, and lab. vi-viii, 30. (With an Asst.)

WALLACE C. SABINE, Asst. Prof. of Physics.

A.B., Ohio, '86; A.M., Harv., '88.

*Light and Heat. ii, and lab. vi-viii, 30. Light and Heat. Research. —?

JOHNS HOPKINS.

49 Graduate Students, 1895-6.

Physical Lab., with constant temp., non-magnetic, and engine rooms, and those for optical work. Special facilities for work in light, electricity, and magnetism. Weekly meetings to discuss journals.

Johns Hopkins — Continued.**H. A. ROWLAND, Prof. of Physics.**

C.E., Rensselaer Polytech. Inst., '70; Asst. Prof., same, '72-5; Ph.D. (hon.), Johns Hopkins, '80.

Electricity and Magnetism. iv, 30.

Journal Club. i, 30.

Laboratory work. —?

J. S. AMES, Assoc. Prof. of Physics.

Ph.D., Johns Hopkins, '90.

Seminary. i, 30.

Theoretical Mechanics. ii, 15.

Electrical Waves. ii, 15.

Laboratory work. —?

LOUIS DUNCAN, Assoc. Prof. of Electricity.

Ph.D., Johns Hopkins, '85.

Applied Electricity. iii, 30.

Applied Electr. (2d year). ii, 30.

Electr. Seminary. i, 30. (With Prof. Rowland.)

Electr. Seminary (2d year). i, 30.

Laboratory. ix, 30. (With Mr. Hering.)

H. S. HERING, Assoc. in Electricity.

M.E., Univ. of Pa., '86.

Electr. Measurements. ii, 30.

H. G. GEER, Assoc. in Mechanical Engineering.

M.E., Cornell, '93.

Mechanics of Engineering. ii, 30.

Mechanical Drawing. vi, 30.

Steam and Hydraulic Eng. (2d year). iii, 30.

Mechan. Drawing (2d year). vi, 30.

LELAND STANFORD, JR.

3 Graduate Students, 1895-6.

FERNANDO SANFORD, Prof. of Physics.

B.S., Carthage, '79, and M.S., '82; Prof. Physical Science, Mt. Morris, '79-'82; Prof. Physical Science, Lake Forest, '90-1. — Conductivity of Copper Wire in Various Dielectrics, etc.

*Optics. ii, 32.

*General Physics. iii, 32.

Orig. Problems in Lab. —?

Special advanced research. —?

MERRITT E. TAYLOR, Asst. Prof. of Physics.

B.S., Northwestern, '83, and M.S., '84; Asst. in Chemistry, '83-4; Instr. in Math., '84-6.

*Electr. and Magnet. Meas. iii, 32.

MICHIGAN.

9 Graduate Students, 1895-6.

HENRY S. CARHART, Prof. of Physics and Dir. of Phys. Lab.

A.B., Wesleyan, '69, and A.M., '72; LL.D., same, '93. — Primary Batteries, Elements of Physics, University Physics, Electrical Measurements.

*Dynamo Electric Machinery. iii, 17, F.-Jun.

*The Alternate Current Transformer: Fleming. ii, 17, O.-F.

The Theory of Heat: Preston. ii, 17, O.-F.

PROF. CARHART, ASST. PROF. PATTERSON, AND DR. GUTHE.

*Electrical Measurements. i, and lab. iii, 17, O.-F.

GEO. W. PATTERSON, JR., Asst. Prof. of Physics.

A.B., Yale, '84; B.S., Mass. Inst. Tech., '87; A.M., Yale, '91. — Trans. Palaz's Photometry, Electrical Measurements.

*Mathematical Electricity: Mascart and Joubert. iii, 17, O.-F.; ii, 17, F.-Jun.

Advanced work in Photometry. i-ii, 17, F.-Jun.

*Theory of Light: Preston. ii, and lab. ii, F.-Jun.

Advanced Lab. work in Light. ii, 34, O.-Jun.

KARL E. GUTHE, Instr. in Physics.

Ph.D., Marburg, '92.

*Advanced Lab. work. in Electr. and Magnetism. ii, 17, F.-Jun.

Theory of Potential and its Applications. iii, 17, F.-Jun.

MINNESOTA.

13 Graduate Students, 1895-6.

Additional courses in Math. Physics will be arranged to meet the needs of students.

FREDERICK S. JONES, Prof. of Physics.

A.B., Yale, '84.

Electricity and Magnetism. Lab. iv, 36.

Heat (Preston). Lab. iv, 36.

Light. Diffraction and Spec. Analysis. Lab. iv, 36.

JOHN ZELNY, Instr. in Physics.

A.B., Univ. of Minn., '92.

Adv. Lab. work in Mechanics. iv, 36.

Thermometry and Calorimetry. iv, 36.

HENRY T. EDDY, Prof. of Engineering and Mechanics.

A.B., Yale, '67; Ph.B., Sheffield S. S., '68; C.E., Cornell, '70; Ph.D., same, '72; Asst. Prof. Math. and Civil Eng., Cincinnati, '74-'90; Pres., Rose Poly. Inst., '91-4.

Applied Mechanics, incl. Hydraulics. v, 36.

Theory of Water Motors. iii, 12.

Thermodynamics. iii, 36.

Theory of Dynamos and Motors. iii, 12.

Diff. Equations and Theory of Alternating Currents. ii, 36.

Potential Function and Spherical Harmonics. ii, 36.

Analytical Statics and Electro Statics. ii, 36.

NEW YORK.

0 Graduate Students, 1895-6.

D. W. HERING, Prof. of Physics.

C.E., Yale, '78; Fel. in Engineering, Johns Hopkins, '76-8; Ph.D., W. Md. Col., '95; Prof. Math., West Md. Col., '80-4; Prof. Physics, West. Univ. of Pa., '84-5.—Electrical units, church acoustics, modern views of physics.

Magnetism and Electricity (minor course). ii, 30.

Mechanics (minor course). ii, 30.
Magnetism and Electricity (major course). ii, 30.
Mechanics (major course). ii, 30.
Thermodynamics. ii, 14, F.-My.

NORTHWESTERN.

2 Graduate Students, 1895-6.

HENRY CREW, Prof. of Physics.

A.B., Princeton, '82; Ph.D., Johns Hopkins, '87.—Rotation of sun, constant temperature, metallic spectra.

*Math. Physics. iii, 36.

Math. Theory of Electr. and Magn. ii, 36.

Physical Optics. ii, 36.

Lab. Research. Special Problems. —?

PENNSYLVANIA.

7 Graduate Students, 1895-6.

1 Scholarship of \$100. 1 Fellowship of \$600, open to Grad. of Univ. of Pa.

GEORGE F. BARKER, Prof. of Physics.

M.D., Alb. Med. Col., '63; Prof. Physiolog. Chem., Yale, '66-'73.—Ed. *Jour. Franklin Inst.*, '73-5, Assoc. Ed. *Am. Jour. Sci.* since '77, text-books in chem. and physics.

Theory and Practice of Spectroscopy. ii, 15, O.-F.

Const. and Prop. of Matter. ii, 15, O.-F.

Wave Motion and Radiation. ii, 15, F.-My.

Electr. and Magnet. ii, 15, F.-My.

Lab. Phys. Investigations. ii, 30.

Lab. in Absolute Phys. Measurements. vi, 30. (With Asst. Prof. Goodspeed.)

ARTHUR W. GOODSPEED, Asst. Prof of Physics.

A.B., Harv., '84; Asst. in Phys., Univ. of Pa., '84-5; Instr., '85-9; Ph.D., same, '90.

Theoret. Dynamics. ii, 15, O.-F.

Pennsylvania — Continued.

Thermodynamics. i, 15, F.—My.
Theory of Potential. i, 15, F.—My.

HORACE C. RICHARDS, Instr. in Physics.
A.B., Univ. of Pa., '88; Ph.D., same, '91.
Theory of Sound. ii, 15, O.—F.

PRINCETON.

6 Graduate Students, 1895-6.

Physical Lab. is supplied with apparatus for adv. study and research. Open throughout the year to Grad. Students. A skilled mechanic is at the service of the dept. for construction of special apparatus. The dept. of electr. eng. offers special courses in theoret. electr. to Grad. Students sufficiently adv. in math., to whom the magnetic obs. of this dept. is open for research in electr. and magnetism.

W. F. MAGIE, Prof. of Physics.

A.B., Princeton, '79; Ph.D., Berlin, '85.—
Electrical discharge, atmospheric elect., surface tension of liquids, theory of temp.

*Analyt. Mechanics. ii, 16, F.—My.
*Theory of Electricity. ii, 16, S.—Ja.
Math. Physics. ii, 32.
Lab. Physics. ii, 32.

F. A. WATERMAN, Instr. in Physics.

A.B., Princeton, '88; Prof. of Physics, Purdue, '91-3.

Mechanics and Heat (el). Lab. viii, 16, S.—Ja.
Electr. and Magn. (el). Lab. viii, 16, F.—My.
Heat and Light (adv). Lab. xii, 16, S.—Ja.
Electr. and Magn. (adv). Lab. xii, 16, F.—My.
Special Investigations. Lab. —? 32.

RADCLIFFE.

0 Graduate Students, 1895-6.

[See Harvard Courses marked R.]

WALLACE C. SABINE.

*Light. ii, and lab., 30.

TULANE.

10 Graduate Students, 1895-6.

BROWN AYRES [see 12].

Physical Optics. iii, 32.
Adv. Lab. work. vi, 32.
Special Courses. —?

DOUGLAS ANDERSON, Asst. Prof. of Physics.

A.B., Washington and Lee; A.M., Tulane, '93.
Adv. Lab. work. vi, 32.

W. H. P. CREIGHTON [see 12].

Theory and Practice of Machine Design (adv). iii, 32.
Engineering Lab. (adv). iii, 32.

VANDERBILT.

5 Graduate Students, 1895-6.

JOHN DANIEL, Prof. of Physics.

A.B., Univ. Ala., '84, and A.M., '86; Asst. Prof. Physics, same, '84-6; Univ. Scholar in Physics, Johns Hopkins, '87; Adj. Prof. Phys., Vanderbilt, '90.—Papers on electrolysis, and electrolytic polarization.

Electricity and Magnetism. iv, 16, O.—Ja.
Electricity and Magnetism. iii, 32.
Exper. Electricity. vi, 32.

WELLESLEY.

1 Graduate Student, 1895-6.

MARGARET E. MALTBY, Assoc. Prof. of Physics.

A.M., Oberlin; B.S., Mass. Inst. of Tech., '91; Ph.D., Göttingen, '95.

*Math. Physics. Selected Problems in Electricity, Heat, Light. iii, 35.
*Electricity. iii, 35.
*Physical Chemistry. iii, 35.

MABEL A. CHASE, Instr. in Physics.

A.B., Oberlin; A.M., Cornell, '89.

- *Electricity. Theory and Measurements.
Heat and Light. iii, 35.

WESTERN RESERVE.

1 Graduate Student, 1895-6.

F. P. WHITMAN, Prof. of Physics and Astronomy.

A.M., Brown, '77; Prof. of Physics, Rensselaer Poly. Inst., '80-5; Prof. of Physics, Adelbert, '85.

- *Electrical Measurements. i, and lab. vi, 33.
*Physical Optics. ii, and lab. vi, 17,
F.-Jun.

WISCONSIN.

2 Graduate Students, 1895-6.

JOHN E. DAVIES, Prof. of Electricity and Magnetism and Math. Physics.

A.B., Lawrence, '62, and A.M., '65; M.D., Chi. Med. Col., '68; LL.D., Northwestern, '87.

Math. Theory of Sound and Wave Motion. iii, 36.

Math. Theory of Electr. and Magnetism. iv, 36.

Math. Physics, with lab. work. v, 36.

YALE.

18 Graduate Students, 1895-6.

Sloane Phys. Lab. spec. devoted to invest. and research in Phys. Rooms for optical and photographic work, esp. in spectrum. Engine room, dynamos and apparatus for electric and magnetic work.

A. W. WRIGHT, Prof. of Exper. Physics.

A.B., Yale, '59, and Ph.D., '61; Prof. Nat. Philos. and Chem., Williams. — Polarization and spectrum of zodiacal light, comets, sun's corona, gases in meteorites, electrical deposition of metals, ozone, cathode rays.

- *Physics (el). ii, 32.
Physics (adv. and research). —?

C. S. HASTINGS, Prof. of Physics.

Ph.B., Yale, '70, and Ph.D., '73; Assoc. Prof. Physics, Johns Hopkins. — Refraction of light, objectives, esp. telescopic, composition of the sun.

Physics (lects. and lab. work on special subjects). —?

J. W. GIBBS [see 12].

Electro-Magnetic Theory of Light. ii, 32.

Dynamics and Thermodynamics. i, 32.

[Thermodynamics and Properties of Matter. —?]

[Electricity and Magnetism. —?]

W. G. MIXTER [see 15].

Chemical Physics. —?

15. CHEMISTRY.

[For Mineralogy, see 17.]

BROWN.

2 Graduate Students, 1895-6.

JOHN H. APPLETON, Prof of Chem.

B.P., Brown, '63, and A.M., '69; Instr. Chem., '63-8. — Chem. Philos., Beginners' Hdbk. Chem., Metals of Chem., Carbon Compounds, The Young Chemist.

- *Quant. Anal. vi-xii, 33.
*Organic Chem. vi-xii, 33.
*Assaying. vi-xii, 21, Ja.-Jun.
*Medical Chem. vi-xii, 21, Ja.-Jun.

*Agric. Chem. vi-xii, 21, Ja.-Jun.

*Scouring and Dyeing of Wool. vi-xii, 10, Ap.-Jun.

BRYN MAWR.

3 Graduate Students, 1895-6.

1 Fellowship, \$525.

EDWARD H. KEISER, Prof. of Chem.

S.B., Swarthmore, '80, Asst. in Chem., '80-1, and S.M., '81; Fel., Johns Hopkins, '82-4, and Ph.D., '84; Asst. in Chem., '84-5. — Various papers in *Am. Chem. Jour.*

Bryn Mawr — Continued.

Chem. Dynamics. Law of Mass Action. i, 30.

*Intro. to Mod. Theories of Chem. i, 30.

ELMER P. KOHLER, Assoc. in Physics.

A.B., Muhlenberg, '86, and A.M., '89; A.M., Johns Hopkins, '90, Fel., '91-2, and Ph.D., '92. — Papers in *Am. Chem. Jour.*

Homocyclic Compounds. i, 30.

*Organic Chem. (adv). i, 30.

EDGAR BUCKINGHAM [see 14].

Thermodynamics. Applica. to Physical Chem. ii, F.-Jun.

*Gen. Physical Chem. ii, 30.

DRS. KEISER AND KOHLER.

Seminary. i, 30.

Journal Meeting. i, 30.

CALIFORNIA.

—? Graduate Students, 1895-6.

WILLARD B. RISING, Prof. of Chem.

A.M.; M.E., Hamilton; Ph.D., Heidelberg.

Theoret. Chem., with Lab. —?

Thermal Chem., with Lab. —?

Inorganic Chem. Review of Classical Investigations. —?

Selected topics in Inorganic Chem.

Preparation of Compounds. —?

Chem. Technol., with Lab. Pract. —?

Methods of Quantitative Anal. —?

Special Research. —?

EDMOND O'NEILL, Asst. Prof. of Organic and Physiological Chem.

Ph.D., Univ. of Cal.

[Gives with Prof. Rising the preceding courses.]

EUGENE W. HILGARD, Prof. of Agricult. and Agricult. Chem.

Ph.D., Heidelberg; LL.D., Columbia.

Physics and Chem. of Soils. —?
Soils. Areas and Distribution in Cal.
Derivation and Cultural Value. —?

ROBERT H. LOUGHRIDGE, Asst. Prof. of Agricult. Geol. and Chem.

Ph.D., Mississippi.

[Gives with Prof. Hilgard course in Soil Areas, etc.]

MYER E. JAFFA, Instr. in Agricult. Lab.

Ph.B., Univ. of Cal.

Original investigations of soils, alkalies, waters, foods, fruits, wines, sugars, etc. —?

ARTHUR P. HAYNE, Graduate Asst. in Viticult.

Ph.B., Univ. of Cal.

Zymology, investigations in Bacteriology and Fermentation. —?

GEORGE E. COLBY, Instr. in Viticult. Lab.

Ph.B., Univ. of Cal.

[Assists in courses given under Mr. Jaffa and Mr. Hayne.]

CHICAGO.

—? Graduate Students, 1895-6.

4 Fellowships.

JOHN ULRIC NEF, Prof. of Chem.

A.B., Harv., '84; Kirkland Fel., same, '84-7; Ph.D., Munich, '86; Prof. of Chem., Purdue, '87-9; Asst. Prof. of Chem., and Acting Head. of Lab., Clark, '89-92.

Research for Ph.D. Thesis. Organic Chem. xxx-xl, 36, Au.-My.

*Special Organic Chem. Lects. ii, 6, Au.-S.

Organic Chem. Lects. v, 30, O.-My.
Organic Preparations. x-xx, 30, O.-My.

Journal Meetings. i, 24, O.-Mar.

ALEXANDER SMITH, Asst. Prof. of Chemistry.

B.Sc., Edinburgh, '86; Ph.D., Munich, '89; Asst. in Chem., Edinburgh, '89-'90; Prof. of Chem. and Mineralogy, Wabash, '90-4.

*Gen. Chem. (adv). Lects. ii, 12, Ap.-Jun.
Inorganic Preparations. x-xx, 12, O.-D.
Research for Ph.D. Thesis. Gen. Chem. xxx-xl, O.-Jun.

FELIX LENGFELD, Asst. Prof. of Chem.

Ph.G., Univ. of Cal., '80; Fel., Johns Hopkins, '87-8, and Ph.D., '88; Prof. of Chem., So. Dakota School of Mines, '90-1; Instr. in Chem., Univ. of Cal., '91-2; Docent in Chem., Chicago, '92-3; Tutor, '93-4; Instr., '94-5.

*Inorganic Chem. (adv). Lects. ii, 24, O.-Mar.
Theoretical Chem. Lects. ii, 24, O.-Mar.
Physico-Chem. Methods. v, 12.
Inorganic Preparations. x-xx, 24, Ja.-Jun.
Research for Ph.D. Thesis. Inorganic Chem. xxx-xl, 48, Jul.-Jun.

JULIUS STIEGLITZ, Instr. in Chem.

Ph.D., Berlin, '89; Docent in Chem., Chicago, '92-3; Asst., same, '93-4.

Research for Ph.D. Thesis. Organic Chem. xxx-xl, 36, Jul.-Mar.

*Carbohydrates and Complex Hydrocarbons. Lects. ii, 12, O.-D.
*Organic Nitrogen Derivatives. Lects. ii, 12, Ja.-Mar.
*Electrolytic Methods. x, 12, Ja.-Mar.

RICHARD S. CURTISS, Docent in Chem.

Ph.B., Yale, '88; Chemist, Conn. Agricult. Exper. Station, '88-'90; Ph.D., Würzburg, '92.

*Gen. Organic Chem. v, 12, Jul.-S.
*Organic Preparations. x-xx, 12, Jul.-S.

*Inorganic Preparations. x-xx, 12, Jul.-S.
*Gas Analysis. x, 12, Ja.-Mar.

COLUMBIA.

11 Graduate Students, 1895-6.

Chemical museum has 8,000 specimens. Collection of apparatus and instruments.

PIERRE DE P. RICKETTS, Prof. of Analyt. Chem. and Assaying.

E.M., Columbia, '71, and Ph.D., '76; Asst. in Chem., same, '68; Asst. in Mineral. and Metal., '71-2; Asst. in Assaying, '72-5, and Instr., '75-'86; Prof. of Assaying, and later of Analyt. Chem. and Assaying, since '86.

Investiga. of New Methods of Qual. and Quant. Anal. x, O.-My. (With Dr. Wells.)

Spectroscope Anal. viii, O.-My. (With Dr. Wells.)

Quant. Anal. iv, and lab. xv, 1½ yrs. (With Mr. Bowen and Dr. Vulté.)

Special Volumetric Methods. Confs., and lab. viii, O.-My.

Revision of Constants. Confs., and lab. xii, O.-My. (With Dr. Vulté.)

Special Methods for Anal. of Plants and their Products. Confs., and lab. xii, O.-My. (With Dr. Vulté.)

Electrolytic Anal. Confs., and lab. xii, 2 yrs. (With Dr. Wells.)

CHARLES E. COLBY, Adj. Prof. of Organic Chemistry.

C.E., and E.M., Columbia, '77. — Qual. anal.

Organic Chem. (el). iv, O.-My.

Gen. Org. Chem. Lects. and recit. vi, and lab. xviii, O.-My. (With Mr. Bogert.)

Org. Chem. (adv). Lab. xii, O.-My. (With Mr. Bogert.)

Org. Chem. (adv). Research. —? O.-My. (With Mr. Bogert.)

CHARLES E. FELLEW, Demonstrator in Chemistry and Physics.

E.M., Columbia, '84; Instr. Physics and Chem., same, '87-'92; Hon. Fel. in Applied Chem.

*Physiological Chem. ii, and lab. vi, O.-F. (With Mr. Tucker.)

Toxicology. ii, and lab. ii, O.-F.; also F.-My. (With Mr. Johnson.)

Columbia — Continued.

JAMES S. C. WELLS, Instr. in Qual. Anal.

Ph.D., Columbia, '77.

Chem. Reactions. Confs., and lab.
viii, O.—My. (With Mr. Bowen.)

FERDINAND G. WIECHMANN, Instr. in
Chem. Philos. and Chem. Physics.

Ph.D., Columbia, '82. — Lect. Notes on
Theoret. Chem.

Chem. Philosophy. ii, O.—My.

Chem. Philosophy (adv). iv, O.—My.

HERMANN T. VULTÉ, Tutor in Chem.

B.S., Columbia, '79, and Ph.D., '81. — Testing
oils and fats, Lab. Manual of Inorg. Preparations.

Prep. of Inorg. Compounds. i, and
lab. iii, Ap.—My.

Prep. of Inorg. Compounds. Confs.
i, lab. viii, O.—My.

CORNELL.

13 Graduate Students, 1895-6.

Special building, 35 rooms; laboratories, museum, lib. of 2,000 vols., including complete sets of all important chemical journals. 14 officers of instr. Four seminars. 1 Fel. \$500, 1 Grad. Schol. \$300.

GEORGE C. CALDWELL, Prof. of Gen.
Chem. and Agricult. Chem.

B.S., Harv., '55; Ph.D., Göttingen, '57; Prof.
of Agricult. Chem., Cornell, '68-'75; Prof.
Agricult. Chem. and Analyt. Chem., '75-'93.
— Agricult. Chem. Anal., Intro. Chem. Practice,
Manual of Qual. and Quant. Anal.

*Agricult. Chem. iii, 32.

Sem. in Agricult. Chem. i, 32.

*Hist. of Chem. iii, 32.

*Sanitary Chem. ii, 21, O.—D., and
Mar.—Jun.

*Qual. Anal. (adv). —? (With Prof.
Dennis.)

*The Polaroscope, Refractometer, and
Methods of Determining Specific
Gravity. i, 11, Ja.—Mar.

LOUIS M. DENNIS, Assoc. Prof. of Analyt.
Chem.

Ph.B., Mich., '85; B.S. (in Chem.), Mich.,
'86; Instr. in Chem., Cornell, '87-9; Asst.
Prof. of Analyt. Chem., '91-4. — Analyt.
chem., inorganic chem., chem. of the rare
earths.

*Qual. and Quant. Gas Anal. Lects.
ii, lab. iv, 11, Ja.—Mar.

*Gas Anal. (adv). ii, 9, Ap.—Jun.

*Spectroscopic Chem. Anal. and Calo-
rimetry. Lects. i, lab. ii, 12, O.—D.

*Inorganic Chem. (adv). Lects. iii,
lab. xx-xi, 32.

Adv. Inorganic Chem. Sem. i, 32.

WILLIAM R. ORNDORFF, Asst. Prof. of
Organic Chem.

Ph.D., Johns Hopkins, '87; Instr. Chem.,
Cornell, '87-'90. — Diazo Compounds, poly-
mers of certain aldehydes, acetone, hydro-per-
oxide and the organic peroxides, Lab. Manual
of Org. Chem.

*Organic Chem. (el). Lects. iii, lab.
iii, 32.

*Special Chapters in Organic Chem.
ii, 32.

*Organic Chem. (adv). Lab. —? 32.

*Coal Tar Dyestuffs. i, 23, O.—Mar.

*Stereochemistry. i, 9, Ap.—Jun.

*Sem. in Organic Chem. ii, 32.

Research in Organic Chem. Lab.
xxx-xi, 32.

JOSEPH E. TREVOR, Asst. Prof. of Gen.
Chem. and Physical Chem.

Ph.D., Leipzig, '92. — Physical chem.

*Theoret. Phys. Chem. iii, 32.

*Sem. in Phys. Chem. i, 32. (With
Prof. Bancroft.)

WILDER D. BANCROFT, Asst. Prof. of
Phys. Chem.

A.B., Harv., '88; Ph.D., Leipzig, '92; Asst. in
Phys. Chem., Harv., '93-4; Instr., '94-5. —
Electro-chem., law of mass action.

*Exper. Phys. Chem. iii, 32.

*Phys. Chem. Lab. —? 32.

*Electrochemistry. Lects. ii, 32.

EMILE M. CHAMOT, Instr. in Analyt. Chem.

B.S., Cornell, '91. — Action of alcohol on acrolein.

*French Chem. Readings. ii, 9, Ap.–Jun.

*Toxicology. Lects. ii, 11, Ja.–Mar.

FRED D. SMITH, Instr. in Analyt. Chem.

B.S., Cornell, '92.

*Assaying. Lab. ii, 9, Ap.–Jun.

*[Adv. Qual. Anal. Lects. and lab. —? 32.]

HARVARD.

15 Graduate Students, 1895–6.

Seven large labs. in Boylston Hall, besides private labs. and preparation rooms; also departmental lab. and chem. museum. Instructors offer to direct adv. students in any line of chem. investigation.

CHARLES L. JACKSON, Prof. of Chem.

A.B., Harv., '67, and A.M., '70. — Substituted benzylbromides, lab. exper. in chem., par-chlorbenzyl compounds, synthesis of anthracene, etc.

Organic Chem. Research. v, 30.

HENRY B. HILL, Prof. of Chem. and Dir. of Lab.

A.B., Harv., '69, and A.M., '72. — Contrib. from the Chem. Lab. of Harv. Col., ethers of uric acid, etc.

*Carbon Compounds. Ultimate Organic Analyses. iii, 30.

Organic Chem. Research. vi, 30.

THEODORE W. RICHARDS, Asst. Prof. of Chem.

S.B., Haverford, '85; A.B., Harv., '86; Ph.D., same, '88. — Atomic weights, meth. of vapor density determination, anal. of cupric bromide, etc.

*Quant. Anal. (adv). iii, 15, O.–Ja.

*Gas Anal. iii, 15, F.–My.

*Hist. of Chem. and Chem. Philos. ii, 15, F.–My.

Physical Chem. iii, 30.

Inorganic Chem. Atomic Weights. Research. v, 30.

Physical Chem. Research. v, 30.

JOHNS HOPKINS.

45 Graduate Students, 1895–6.

Weekly Journal meetings. 10 or 12 lects. by adv. students on special topics. Lab. daily, 9 to 5, under Profs. Remsen and Morse.

IRA REMSEN, Prof. of Chem. and Dir. of Chem. Lab.

A.B., Col. City of N. Y., '65; M.D., Col. Phys. and Surg., N. Y., '67; Ph.D., Göttingen, '70; Prof. Chem., Williams, '72–6; LL.D., Columbia, '93. — Ed. *Amer. Chem. Jour.*

Selected Topics. ii, 12, O.–D.

Compounds of Carbon. iv, 18, J.–My.

H. N. MORSE, Prof. of Analyt. Chem.

A.B., Amherst, '73; Ph.D., Göttingen, '75; Instr. in Chem., Amherst, '75–6.

Analyt. Methods. i, 30.

W. W. RANDALL, Assoc. in Chem.

Ph.D., Johns Hopkins, '90.

Princs. of Physical Chem. ii, 12, O.–D.

H. C. JONES, Instr. in Phys. Chem.

Ph.D., Johns Hopkins, '92.

Special course in Phys. Chem. —?

LELAND STANFORD, JR.

8 Graduate Students, 1895–6.

JOHN M. STILLMAN, Prof. of Chem.

Ph.B., Univ. of Cal., '74; Ph.D., same, '85; Asst. in Chemistry, '73–5; Instr. in Organic and Gen. Chem., California, '76–82.

*Industrial Chem. ii, 32.

*Theories of Chem. ii, 14, S.–D.

Adv. Lab. Work. —? (With Profs. Richardson, Lenox, and Young.)

Chem. Seminary. i, 32. (With Profs. Richardson and Young.)

GEORGE M. RICHARDSON, Prof. of Organic Chem.

A.C., Lehigh, '86; Ph.D., Johns Hopkins, '90; Instr. in Quant. Chem. Anal., Lehigh, '88–9; Fel. in Chem., Johns Hopkins, '89–'90; Instr. in Organic Chem., Lehigh, '90–1.

Leland Stanford, Jr. — Continued.

- *Hist. of Chem. i, 18, Ja.-My.
 *Organic Synthesis. i, 18, Ja.-My.

LIONEL R. LENOX, Assoc. Prof. of Analyt. Chem.

Ph.B., Columbia, '88; Instr. in Chem., Lehigh, '88-'91.

- *Urine Analysis. ii, 14, S.-D.
 *Toxicology. ii, 18, Ja.-My.

STEWART W. YOUNG, Asst. Prof. of Chem.

B.S., Cornell, '90; Asst. in Chem., '90-1; Instr. in Chem., Swarthmore, '91-3.

- *Organic Chem. (adv). i, 32.

MICHIGAN.

12 Graduate Students, 1895-6.

1 Fellowship, \$500; 1 Assistantship, \$300.

Journal Club, in which all instructors take part. ii, 17, F.-Jun.

PAUL C. FREER, Prof. of Gen. Chem. and Dir. of Lab. of Gen. Chem.

M.D., Rush Med. Col., '82; Ph.D., Munich, '87; Asst. in Chem., Tufts, '87; Instr., same, '88; Lect. in Chem., Mich., '89; Prof., same, '89. — Organic chem., gen. descrip. chem., el. of chem., constitution of aceto-acetic ether, tetrinic acid, action of sodium on acetone, etc.

- *Theoret. Chem. of Recent Years. iii, 17, O.-F.
 Lab. Research. —? 34, O.-Jun.

GEO. H. HIGLEY, Instr. in Chem.

B.S., Mich., '91, and M.S., '92.

- *Methods of Determining Molecular Weights. Lab. ii, 17, F.-Jun.
 *Lab. Research. —? 34, O.-Jun.

D. M. LICHTY, Instr. in Chem.

B.S., Westchester State Normal School, '87; M.S., Michigan, '91.

- *Lab. Work. ii, 17, F.-Jun.
 Lab. Research. —? 34, O.-Jun.

P. L. SHERMAN, JR., Instr. in Chem.

Ph.D., Munich, '95.

- Lab. Research in Organic Chem. —? 34, O.-Jun.

ARTHUR LACHMAN, Fellow in Gen. Chem.

B.S., Cal., '93; Ph.D., Munich, '95.

- Lab. Research in Nitrogen and Organic Chem. —?

VICTOR C. VAUGHAN, Prof. of Hygiene and Physiol. Chem., and Dean of Dept. of Medicine and Surgery.

Ph.B., Mich., '75, Ph.D., '76, and M.D., '78. — Chem. study of products of bacteria.

- Original Research on Causation of Disease. —? 34, O.-Jun.

FREDERICK G. NOVY, Jun. Prof. of Hygiene and Physiol. Chem.

Sc.D., Michigan, '90, and M.D., '91. — Typhoid and leucemias, bacterial products, hog cholera.

- Physiol. Chem. (adv). —? 34, O.-Jun.

A. B. PRESCOTT, Dir. of Chem. Lab., and Prof. of Organic Chem.

M.D., Mich., '64. — Ref. works on analyt. chem., organic and inorganic, organic nitrogen bases, etc.

- *Carbon Compounds. Lects. v, 18, O.-F.; also v, 16, F.-Jun.
 *Analyt. Organic Chem. v, 34, O.-Jun.
 Research. Lab. v, 34, O.-Jun.

O. C. JOHNSON, Prof. of Applied Chem.

A.B., Oberlin, '68; Ph.C., Mich., '71; A.M., Oberlin, '77. — Qual. chem. anal.

- *Analyt. Chem., Adv. Qual. Lects. ii, lab. v, 17, F.-Jun.
 Inorg. Reactions. Lab. v, 34, O.-Jun.

E. D. CAMPBELL, Jun. Prof. of Metallurgical Chem.

B.S., Mich., '86. — Structural constitution of iron and steel, fractional combustion of gases.

- *Analyt. Chem., Adv. Quant. Lects. ii, lab. v, 34, O.-Jun.

Research in Analyt. Chem. and Metallurg. Chem. Lab. v, 34, O.-Jun.

M. GOMBERG, Instr. in Organic Chem.

Sc.D., Mich., '94. — Action of cyanides upon chloro-caffeine, caffeine perhalides, etc.

[Absent on leave in 1896-7.]

P. F. TROWBRIDGE, Instr. in Organic Chem.

Ph.B., Mich., '92. — Pyridine periodides.

*Organic Preparations and Combustions. Lab. v, 34, O.-Jun.
Research. Lab. v, 34, O.-Jun.

MINNESOTA.

8 Graduate Students, 1895-6.

GEORGE B. FRANKFORTER, Prof. of Chemistry.

B.S., Univ. of Nebraska, '86, and A.M., '88; Ph.D., Berlin, '93; Prof. of Analyt. Chem., Univ. of Neb., '93. — On Narceine.

Research in Electrochemistry. iv, 24.
Chem. of Compounds of Carbon. v, 36.

Plant Alkaloids. iv, 24.
Special Analyt. Chem. iv, 36.

NEW YORK.

4 Graduate Students, 1895-6.

ROBERT W. HALL, Prof. of Chemistry.

A.M., Princeton, '76; E.M., Columbia, '76.

Analyt. Chem. (adv). Lab. ii, 30.
Inorganic Synthesis. Lab. i, 30.
Inorganic Research. Lab. ii, 30.
Organic Chem. Lects. and lab., ii, 30.

MORRIS LOEB, Prof. of Chemistry.

Ph.D., Berlin, '87; Docent, Clark, '89-'91.

Physical Chem. Lects. and lab., ii, 30.
Seminary in Hist. and Theory of Chem. ii, 30.

NORTHWESTERN.

1 Fellowship, \$400.

5 Graduate Students, 1895-6.

ABRAM VAN EPS YOUNG, Prof. of Chem.

Ph.B., Mich., '75; Fellow, Johns Hopkins, '77-9; Asst. in Chem., Harvard, '83-5.

*Gen., Descriptive, and Organic Chem., and Qual. and Quant. Anal. (cl). iv, 36.

*General Chem. (adv). ii, 36.

*Sanitary Chemistry. ii, 36.
Exper. Research. Inorganic. x-xv, 36.

PENNSYLVANIA.

18 Graduate Students, 1895-6.

Special building exclusively for Chemistry.
1 Fellowship of \$600, 1 Scholarship of \$100.

EDGAR F. SMITH, Prof. of Chem.

B.S., Pa. Col., '74; Ph.D., Göttingen, '76; Prof. of Chem., Wittenberg, '83-8. — Invest. in inorg., org., and analyt. chem., trans. Richter's Chem.

Gen. Inorg. Chem. ii, 30.

Analyt. Chem. i, 15, O.-F.

Mineral Anal. i, 15, O.-F.

Inorg. Preparations. i, 15, F.-My.
Hist. and Theories of Chem. i, 30.

HERMANN FLECK, Instr. in Chem.

Ph.D., Tübingen, '93.

Gas. Anal. i, 15, F.-My.

Organic Chem. i, 30.

ROBERT H. BRADBURY, Instr. in Chem.

Ph.D., Univ. of Pa., '94.

Physical Chem. i, 30.

PRINCETON.

3 Graduate Students, 1895-6.

H. B. CORNWALL, Prof. of Applied Chem. and Mineralogy.

A.B., Columbia, '64, E.M., '69, and Ph.D., '87. — Trans. of Plattner's Blowpipe Anal., papers on chem. and mineralogy, blowpipe anal.

Princeton — Continued.

*Quant. Chem. Anal. iv, 16, F.-My.

*Quant. Anal. (adv). vi, 32.

[Also several technical courses.]

L. W. MCCAY, Prof. of Chem.

A.B., Princeton, '78; Sc.D., same, '83. —
Arsenic compounds, analyt. chemistry.

*Theoret. and Org. Chem. ii, 16, S.-Ja.

FRED. NEHER, Instr. in Anal. Chem.

A.B., Princeton, '89, and A.M., '91.

*Volumetric Analysis. i, 16, S.-Ja.

Organic Chem., Fatty Series. iv, 16,
S.-Ja.

RADCLIFFE.

1 Graduate Student, 1895-6.

T. W. RICHARDS.

*Hist. of Chem. and Chem. Philos. ii,
15, F.-My.

Inorganic Chem., incl. Determination
of Atomic Weights. Research. —?

TULANE.

3 Graduate Students, 1895-6.

JOHN W. CALDWELL, Prof. of Chem. and
Geology.

A.B., College of Charleston, S. C.; A.M.,
same; M.D., Med. Col., State of Virginia;
Prof. Nat. Science, Southwestern Presbyterian
Univ., '74-'84.

Crystallography. —?

Physical Chemistry. —?

Chem. Principles and Problems. —?

Discussion Current Chem. Topics. —?

Adv. Lab. Work. —?

JOHN M. ORDWAY, Prof. of Applied Chem.

A.B., Dartmouth, '44, and A.M., '47.

Methods of Chem. Investiga. —?

Designing of Furnaces and Other Large
Chem. Apparatus. —?

[Special courses arranged to meet needs of
students.]

VANDERBILT.

5 Graduate Students, 1895-6.

WM. L. DUDLEY, Prof. of Chem.

Dean Med. Dept., Univ. Cin., '76-9; Prof.
Chem., Miami Med. Col., '80-6; State Chem-
ist, '90-1. — Research on iridium and plat-
inum, organic analysis, inorganic and physical
chem.

Chem. Technology. iii, 32.

Quant. Analysis. iii, 32.

Metallurgy. ii, 32.

Lab. Work. iii, 32.

Research. —?

J. T. MCGILL, Adj. Prof. of Chem.

B.S., Vanderbilt, '79; Ph.D., '81; Ph.G., '82.
— Intro. to qualitative chem. analysis.

Organ. Chem. Lab. iii, 32.

Theories and Principles of Organic
Chemistry. ii, 32.

Organ. Chem. (adv). iii, 32.

Research in Organ. Chem. —?

W. H. HOLLINSHEAD, Instr. in Chem.

Ph.G., Vanderbilt.

Analyt. Chem. iii, 32.

WELLESLEY.

3 Graduate Students, 1895-6.

CHARLOTTE F. ROBERTS, Prof. of Chem.

A.B., Wellesley, '80; Ph.D., Yale, '94.

*Qual. Analysis. iii, 35.

*Organic Chem., with lab. work. iii, 35.

*Theoret. Chem. iii, 17, S.-Ja.

CHARLOTTE A. BRAGG, Instr. in Chem.

B.S., Mass. Inst. Tech., '90.

*Qual. Analysis. iii, 17, S.-Ja.

*Intro. to Organic Chem. iii, 17, F.-
Jun.

EMMA H. PARKER, Instr. in Chem.

B.S., Smith, '87.

*Quant. Analysis. iii, 17, F.-Jun.

WESTERN RESERVE.

o Graduate Students, 1895-6.

E. W. MORLEY, Prof. of Chem.

A.B., Williams, '60; Prof. of Chem., West. Res. Col., '68-'82; Adelbert Col., '82-pr.

*Organic Chem. ii, and lab. iii, 33.

*Quant. Analysis. Lab. ix, 33.

WISCONSIN.

10 Graduate Students, 1895-6.

WILLIAM W. DANIELLS, Prof. of Chem.

M.S., Mich. Agricult. Col., '67; Prof. of Agricult., Wis., '68; Prof. of Analyt. Chem. and Agricult., '69-'80.

Inorganic Chem. (adv). Lects. and lab. —? 36.

Analytical Chem. (adv). Lects. and lab. —? 36.

LOUIS KAHLENBERG.

B.S., Wis., '92; Fellow in Chem., '92-3; Instr. in Chem., '93-4; Ph.D., Leipzig, '95.

Physical Chem. Lects. ii, and lab., 36.

HOMER HILLIER, Asst. Prof. of Organic Chem.

A.B., Wis., '82; Fellow, Johns Hopkins, '82-5, and Ph.D., '85.

Organic Chem. (adv). —? 36.

EDWARD KREMERS, Prof. of Pharmaceutical Chem.

Ph.G., Wis., '86, and B.S., '88; Ph.D., Göttingen, '90; Instr. Pharm. Chem., Wis., '90-2.

Polyatomic Alcohols of Paraffin Hydrocarbons and their Derivatives, with spec. ref. to Sugars and Glucosides. i, 18, S.-F.

Hydrocymenes and Derivatives, with spec. ref. to Volatile Oils. i, 18, F.-Jun.

Orig. work and research, esp. of Terpenes and Volatile Oils. —?

RODNEY H. TRUE, Instr. in Pharmacognosy.

Fellow in Bot., Wis., '90-2, and M.S., '92; Ph.D., Leipzig, '95.

Microscopic Examination of Powdered Drugs. —?

YALE.

24 Graduate Students, 1895-6.

S. W. JOHNSON, Prof. of Theoret. and Analyt. Chem.

A.M., Yale, '56; Dir. of Conn. Agricult. Exper. Station. — Publications on chemistry, agricult. chem. and agricult.

Agricult. Chem. ii, 32.

Organic Chem. iv. 12, O.-D.; also ii, 20, Ja.-Jun.

W. G. MIXTER, Prof. of Chem.

Ph.B., Yale, '67, and A.M., '87. — Various papers in *Am. Chem. Jour.*, text-book of chemistry, etc.

Chemical Physics. —?

F. A. GOOCH, Prof. of Chem.

A.B., Harv., '72; Asst., same, '72-5; Ph.D., same, '77; Expert Spec. Agt., U. S. 10th Census; Chem. Northern Transcont. Survey, '81-4; U. S. Geol. Survey, '84-6. — Analyt. apparatus, methods and results, separation and determination of elements.

Exper. Inorg. Chem. iii, 32.

Organic Chem. (el). ii, 32.

*Quant. Anal. iii, 32.

Quant. Anal. (2d course). Lab. —?

Organic Synthesis. Lab. —?

[Chemical Theory. ii, 32.]

Special Methods. Lab. —?

Research in Inorganic Chem. —?

P. E. BROWNING, Instr. in Chem.

A.B., Yale, '89, and Ph.D., '92. — Methods and results, separation and determination of elements.

*Qual. Anal. iii, 32.

Inorg. Preparations. Lab. —?

Qual. Anal. (adv). Lab. Research. —?

Yale — Continued.

H. L. WELLS, Prof. of Analyt. Chem. and Metallurgy.

Ph.B., Yale, '77; Chemist, Conn. Agricult. Exper. Station. — Minerals, polyhalides, double-salts, analyt. methods.

*Qual. Anal. (el). ii, and lab., O.—D.

*Quant. Anal. Lects. and lab. —? O.—Jun.

Quant. Anal. (adv). —? O.—Jun.

*Metallurgy and Assaying. Lects. and lab. —? Easter—Jun.

*Tech. Gas Anal. —? Easter—Jun.

Investiga. in Inorg. Chem. —? O.—Jun.

H. L. WHEELER, Instr. in Chem.

Ph.B., Yale, '90, and Ph.D., '93.

Organic Chem. (adv). —? 32.

W. T. H. HOWE, Instr. in Chem.

Ph.B., Yale, '93.

*Organic Chem., Paraffin Series. ii, 32.

*Organic Chem., Aromatic Series. ii, 12, O.—D.

*Theoret. Organic Chem., and Preparations. iii, and lab. xv, 20, Ja.—Jun. Organic Chem. (adv). Lab. xv, 32.

16. BIOLOGY.

[Including Zoölogy, Botany, Physiology, and Palæontology (in part). See also 17.]

BARNARD.

3 Graduate Students, 1895-6.

EMILY L. GREGORY, Prof. of Botany.

Ph.D., Zürich, '86; Assoc. in Bot., Bryn Mawr, '86-8; Hon. Fel., Univ. of Pa., '88-9.

General Botany (adv). vi, 15, O.—F.

Plant Anatomy. vi, 15, F.—My.

G. N. CALKINS.

General Biology. ii, 30.

BROWN.

10 Graduate Students, 1895-6.

ALPHEUS S. PACKARD, Prof. of Zoöl. and Geol.

Ph.D., Bowdoin; Libr. and Custodian, Boston Soc. Nat. Hist., '65; Lect., Mass. Agricult. Col., '69-'77; Maine Agricult. Col., '71; Bowdoin, '73-6. — Scientific works, chiefly zoölogy and geology.

*Zoölogy. iii, 21, Ja.—Jun.

*Entomology. iii, Ja.—Jun.

HERMON C. BUMPUS, Prof. of Comp. Anat.

B.P., Brown, '84; Ph.D., Clark, '90; Instr. Biol., Brown, '84-5; Prof. Biol., Olivet, '85-8; Fel. in Morphol., Clark, '88-9; Assoc. Prof. Biol., Brown, '89-'90; Asst. Dir. Marine Biol. Lab., Wood's Holl, '94-5.

Invert. Anatomy. iii, 10, Ap.—Jun.

Comp. Anat. Vertebrates. iii, 23, S.—Mar.

GEORGE W. FIELD, Assoc. Prof. of Cellular Biology.

A.B., Brown, '87; Ph.D., Johns Hopkins, '92; Asst. in Biol., same, '91-2.

*Biology (intro). vi, 33.

*Normal Histology. vi, 12, S.—D.

*Comp. Embryology. vi, 10, Ap.—Jun.

*Cellular Biol. iii, 10, Ap.—Jun.

General Biol. iii, 23, S.—Mar.

RALPH W. TOWER, Instr. in Chem. Physiol.

A.B., Brown, '92, and A.M., '93; Instr. Biol., '92-3; Fellow, '94-5.

Chem. Physiology. iii, 33.

FREDERIC P. GORHAM, Instr. in Biol.

A.B., Brown, '93, and A.M., '94.

Vertebrate Anat. vi, 23, S.—Mar.

Bacteriology. vi, 11, Ja.—Mar.

BRYN MAWR.

7 Graduate Students, 1895-6.

1 Fellowship, \$525.

THOMAS H. MORGAN, Prof. of Biol.

B.S., State Col. Kentucky, '86, and M.S., '88;
Graduate Schol., Johns Hopkins, '88-9; Fel.,
'89-90, Ph.D., '90, and Bruce Fel., '90-1.Morphology. Structure of Protoplasm
and the Cell. i, 30.

*Embryology. i, 30.

*General Zoölogy. i, 30.

JOSEPH W. WARREN, Assoc. Prof. of
Physiology.A.B., Harv., '71; M.D., Univ. of Bonn, '80;
Asst. and Instr. in Physiol., Harv. Med. Sch.,
'81-91; Lect. in Med. Dept., Univ. City of
N. Y., '85-6; Lect. in Physiol., Mich., '89.

Physiol. of Special Senses. i, 30.

*Struct. and Funct. of the Central Ner-
vous System. i, 30.

*Physiology (adv). i, 30.

DRS. MORGAN AND WARREN.

Seminary. Fortnightly.

Journal Meeting. Fortnightly.

CALIFORNIA.

—? Graduate Students, 1895-6.

WILLIAM A. SETCHELL, Prof. of Botany.

A.B., Yale; A.M. and Ph.D., Harvard; Mor-
gan Fellow, Harvard, '87-8; Asst. in Biol-
ogy, Harvard, '88-91; Instr. in Biology,
Yale, '91-5; Asst. Prof. of Botany, Yale, '95;
Instr. in Botany, Marine Biol. Lab., Wood's
Holl, '90-5.Adv. Cryptogamic Botany. Research.
—?

*Phycology and Mycology. —?

*[Pteridology and Bryology. —?]

WILLIS L. JEPSON, Instr. in Botany.

Ph.B., Cal. — Editor of *Erythea*.Adv. Phanogamic Botany. Research.
—?

*Morphology of the Compositæ. —?

*[Taxonomy and Phylogeny of Phæno-
gams. —?]EDWARD J. WICKSON, Assoc. Prof. of
Agricult., Horticult., and Entomol.

A.M., Hamilton.

Horticulture. Economic value and
adaptation to local climate of culti-
vated plants. —?WILLIAM E. RITTER, Asst. Prof. of Bi-
ology.

Ph.D., Harvard.

*Seaside Laboratory. —?

*Zoölogical Seminary. Current Lit. i,
32.

*Special research in var. lines. —?

C. W. WOODWORTH, Asst. Prof. of En-
tomology.

*Structural Entomol. (adv). iii, 16.

CHICAGO.

—? Graduate Students, 1895-6.

7 Fellowships in Zoölogy; 1 in Physiology.

CHARLES O. WHITMAN, Head. Prof. of
Zoölogy.A.B., Bowdoin, '68, and A.M., '71; Ph.D.,
Leipzig, '78; Fel., Johns Hopkins, '79; Prof.
Zoöl., Imp. Univ. of Japan, '80-1; Asst. in
Zoöl., Harv., '83-5; Prof. Zoöl., Clark, '89-
'92. — Ed. *Jour. of Morphology*, and Micro-
scopical Dept. of *American Naturalist*.*Embryology. Higher Invert. i, and
lab. xii, 24. Seminar. Hist. i, 24,
O.-Mar.

*Embryology. Vert. viii, 12, Ap.-Jun.

*Marine Zoölogy at Wood's Holl. viii,
12, Jul.-S.WM. M. WHEELER, Asst. Prof. in Em-
bryology.Curator, Milwaukee Pub. Mus., '87-'90; Asst.
in Morphology, Clark, '90-2, and Ph.D., '92.*Comp. Anat. of Verts. viii, 24, O.-
Mar.

Chicago — Continued.

*Entomology. iv-viii, 36 or 18, O.-Jun.

*Embryology (adv). viii, 6, Ap.-Jun.

EDWIN O. JORDAN, Asst. Prof. in Zool.

S.B., Mass. Inst. Tech., '88; Chief Asst. Biol., Mass. State Bd. of Health, '88-'90; Lect. on Biol., Mass. Inst. Tech., '89-'90; Fel., Clark, '90-2, and Ph.D., '92.

*Special Bacteriology. iv-viii, 12 or 6, O.-D.; also Ja.-Mar., and Jul.-S.

*Gen. Bacteriology. viii, 6, Jul.-S.

SHO WATASÉ, Asst. Prof. in Cellular Biology.

B.S., College of Sapporo, Japan, '84; Scholar, Johns Hopkins, '87-8; Fel., same, '88-'90; and Ph.D., '90; Asst. and Lect., Clark, '90-2.

*Cell. Anat. and Physiology. iv, 36, O.-Jun.

*Comp. Anat. of Visual Organs. iv-viii, 36 or 18, O.-Jun.

NORMAN WYLD, Docent in Zoölogy.

*Heredity and Evolution. iv, 36, O.-Jun.

*Seminar. iv, 36, O.-Jun.

JACQUES LOEB, Assoc. Prof. of Physiol.

M.D., Strasburg, '84; Asst. in Physiol., Würzburg, '86-8; Asst. in Physiol., Strasburg, '88-'90; Assoc. in Biology, Bryn Mawr, '91-2.

*Research at Wood's Holl. viii, 12, Jul.-S.

*Original Investigation. viii, 36, O.-Jun.

*Adv. Physiol. iv-viii, 36 or 18, O.-Jun.

*Comp. Physiol. of Cent. Nerv. Syst. iv, 12, Ja.-Mar. Sense Organs, Ap.-Jun.

DAVID J. LINGLE, Instr. in Physiol.

B.S., Chicago, '85; Asst. in Science, Beloit, '86-7; Asst. Prof. Biol., Tulane, '89-'90; Fel., Johns Hopkins, '91-2, and Ph.D., '92.

*Physiol. of Circulation. ii, 12, O.-Ja.

*Gen. Lab. Work. iv, 24, Ja.-Jun.

*Physiol. of Digestion. iv, 12, Ja.-Mar.

HENRY A. DONALDSON, Head Prof. of Neurology.

A.B., Yale, '79; Fel., Johns Hopkins, '81-3; Instr. in Biol., same, '83-4; Ph.D., '85; Assoc. in Psychol., '87-8; Asst. Prof. Neurology, Clark, '89-'92.

*Research. viii, 48.

*Nervous System. Architecture, iv, 12, O.-D. Brain Growth, Ja.-Mar. Special Sense Organs, Ja.-Ap. Localization of Functions, Ap.-Jun.

*Devel. of Cent. Nerv. Syst. iv, 12, Jul.-S.

*Seminar. ii, 48.

GEORGE BAUR, Assoc. Prof. of Palaeontology.

Ph.D., Munich, '82; Asst., Munich, '82-4; Asst., Yale, '84-'90; Docent, Clark, '90-2.

*Comp. Osteology Verts. ii, 24, Ja.-Mar.; also Ap.-Jun.

*Seminar in Phylogeny. ii, 36, O.-Jun.

*Research in Osteology. viii, 42, O.-Au.

*Human Osteology. iv, 6, Jul.-Au.; also F.-Mar., and Ap.-My.

*Syst. Phylogeny of Verts. iv, 6, Jul.-Au.

*Field Work. iv, 6, Au.-S.

ALBERT C. EYCLESHYMER, Tutor in Anatomy.

Asst. in Animal Morphol., Mich., '89, and Botany, '90; Asst. to Dir. Allis Lake Lab., '90-1; S.B., Mich., '91; Fel. in Biol., Princeton, '91; Fel. in Morphol., Clark, '91-2; Fel. in Anat., Chicago, '92-3; Asst., '93-5, and Ph.D., '94.

Anatomical Methods. iv, 6, O.-N.; also Ap.-My.

Histological Methods. iv, 6, N.-D.; also My.-Jun.

Els. of Histology. iv, 12, Ja.-Mar.

Mammalian Anatomy. iv, 24, Ja.-Jun.

JOHN M. COULTER, Head Prof. of Botany.

A.B., Hanover, '70, and A.M., '73; Prof. Nat. Sci., same, '74-9; Ph.D., Hanover, and Indiana, '82; Prof. Biol., Wabash, '79-'91; Pres. and Prof. Bot., Indiana, '91-3; Pres. Lake Forest, '93-6. — Ed. *Bot. Gazette*.

Special Morphology. Gymnosperms, v, 12, O.-D. Monocotyledons, v, 12, Ja.-Mar. Dicotyledons, v, 12, Ap.-Jun.
 Taxonomy of Pteridophytes. v, 48, Jul.-Jun.
 Taxon. of Gymnosperms. v, 48, Jul.-Jun.
 Taxon. of Monocotyledons. v, 48, Jul.-Jun.
 Taxon. of Dicotyledons. v, 48, Jul.-Jun.

HEAD PROF. COULTER AND DR. DAVIS.

Morphology (adv). v, 48, Jul.-Jun.
 Research in Morphology. v, 48, Jul.-Jun.
 Taxonomy (adv). v, 48, Jul.-Jun.
 Research in Taxonomy. v, 48, Jul.-Jun.

BRADLEY M. DAVIS, Assoc. in Botany.

A.B., Stanford, '92; Ph.D., Harvard, '95.
 Taxonomy of Algæ. v, 48, Jul.-Jun.

CLARK.

19 Graduate Students, 1895-6.

Two Fels. \$500 each, two \$400 each; two Schols. \$200 each, two \$100 each. Lab. open daily from 8 to 6. Special attention to individual work.

CLIFTON F. HODGE, Asst. Prof. of Physiology and Neurology.

A.B., Ripon Col., '82; Fel., Johns Hopkins, '88-9, and Ph.D., '89; Fel. in Physiology and Asst. in Neurology, Clark, '89-91; Instr. in Biology, Wis., '91-2.

Comp. Study of Nervous Systems and Sense Organs. i, 17, O.-Ja.

General Biology (adv). Lab. i, 6, Ja.-F.

Seminary. i, O.-Jun.

Physiol. of Nutrition. i, 24, O.-Ap.

Physiol. of the Reproductive Organs. i, 8, Ap.-My.

Embryology and Growth of the Human Brain and Sense Organs. i, 6, My.-Jun.

Practical Histology of the Nervous System. Lab. —? O.-Jun.

COLUMBIA.

10 Graduate Students, 1895-6.

Investigators' rooms, Marine Biolog. Lab., Wood's Hall. Herbarium of about 500,000 spec., Torrey Coll. Botan. lib. 3,700 vols., 5,000 pamphlets. Museum of human and comparative anatomy. Access by agreement to Am. Museum of Nat. Hist. Bacteriological and physiological labs.

HENRY F. OSBORN, Prof. of Zoölogy.

Ed. *Columbia Univ. Biological Series*, From the Greeks to Darwin, Protoceras, Heredity.

Comp. Zoölogy. vi, O.-My. (With Prof. Wilson.)

Morphol. of Mammals. vi, O.-My.

Biology (adv). xii, O.-My.

Seminar. i, O.-My.

Vertebrate Organogeny. Lects. and lab. v, F.-My. (With Dr. Dean.)

EDMUND B. WILSON, Prof. of Invertebrate Zoölogy.

Asst. in Zoölogy, Yale, '78-9; Asst. in Biol., Johns Hopkins, '81-2, and Ph.D., '82; Lect. in Biol., Williams, '83-4; Lect., Mass. Inst. Tech., '84-5; and Prof. Biol., '85-91.

Comp. Embryology. vi, O.-F.

Cellular Biology. vi, F.-My.

Special and Experimental Embryology. i, F.-My.

BASHFORD DEAN, Instr. in Biology.

Ph.D., Columbia, '90. — Oyster culture, marine laboratories.

Morphology of Fishes. vi, F.-My.

Embryology of Fishes. i, F.-My.

GARY N. CALKINS, Tutor in Biology.

Special Morphology. i, F.-My.

NATHANIEL L. BRITTON, Prof. of Bot.

E.M., Ph.D., Columbia, '81; Instr. in Botany, '87-9; Adj. Prof. of Botany, '89-91. — Ed. *Bull. Torrey Bot. Club*, and *Trans. N. Y. Acad. of Sci.*

Cryptogamic Botany. Lects. i, lab. iv, O.-My. (With Dr. Curtis.)

Columbia — Continued.

Natural Families of Flowering Plants.

Lects. i, lab. iv, O.—My.

Cryptogamic Botany (adv). Lects. i, lab. iv, O.—My. (With Dr. Curtis.)

Comp. Study of Plant Tissues. Lab. viii, O.—My. (With Dr. Curtis.)

Research. viii, O.—My., and summers.

Crit. Study of a Family or Genus of not less than fifty species. viii, 2 yrs.

Economic Botany. i, O.—My.

CARLETON C. CURTIS, Tutor in Botany.

A.M., Columbia, '92; Ph.D., Syracuse, '93.

Adv. Plant Anatomy. Lab. iv, O.—My.

JOHN G. CURTIS, Prof. of Physiology.

A.B., Harvard, '66, and A.M., '69; Asst. Demonstrator, Columbia, '70-1; Dem. in Anat., '71-5; Adj. Lect. on Physiol. and Hygiene, '75-6; Adj. Prof., '76-83; Prof., '83-pr.

*Comp. Physiology. iv-vi, O.—My. (With Prof. Lee and Dr. Cunningham.)

Lab. Research. —? (With Prof. Lee and Dr. Cunningham.)

FREDERIC S. LEE, Adj. Prof. and Demonstrator of Physiology.

General Physiology. i, O.—My.

Lab. courses. v, O.—My.

GEORGE S. HUNTINGTON, Prof. of Anatomy.

A.B., Yale; M.D., Columbia, '84; Asst. Dem. in Anat., same, '86-9; Lect., '89-90, and Prof. of Anatomy, '90-pr.

Lab. courses in Animal Morphol. Carpus, Respiratory Apparatus, Nervous System, Myology, Auditory Apparatus, Urino-Genital System, Cranial Topography. —?

T. MITCHELL PRUDDEN, Prof. of Pathology.

Bacteriology (adv). —? (With Dr. Cheesman.)

TIMOTHY M. CHEESMAN, Instr. in Bacteriology.

A.B., Columbia, '74, A.M., '77, and M.D., '78; Instr., '93-pr.

Preparation, Staining, Measurements, etc., of Bacteria. —?

O. S. STRONG, Tutor in Comp. Neurology.

Comp. Neurology. iii, O.—My.

CORNELL.

11 Graduate Students, 1895-6.

Herbar. contains 15,000 spec. Insectary of Agricult. Exper. Station affords facilities for investigating life hist. of insects. Special feature of Zool. Museum is extensive series of dissected human and animal brains. 1 Fel. \$500, and 1 Grad. Schol. \$300, assigned to Depts. of Physiol., Vertebrate Zoology and Entomol., Gen. Invert. Zool. Also 1 Fel. \$500, and 1 Grad. Schol. \$300, assigned to Depts. of Botany and Geology.

BURT G. WILDER, Prof. of Physiol., Vert. Zoology and Neurology.

B.S., Harv.; M.D., same, '66; Asst. in Comp. Anat., same, '66-7; Prof. of Zoology, Cornell, '78. — Gross anat. of brain, human and comp., anat. of cat, ganoid fishes, spiders, anat. nomenclature.

*Neurology. iii, 9, Ap.—Jun.

*Neurology. ii, 9, Ap.—Jun. (With Mr. Stroud.)

*Comp. Anatomy. Daily, 32.

*Vertebrate Zoology. iii, and lab. ii, 11, Ja.—Mar.

JOHN H. COMSTOCK, Prof. of Entomol. and Gen. Invert. Zool.

B.S., Cornell, '74; Instr. in Entomol., same, '73-7; Asst. Prof., '77-82; U. S. Entomol., '79-81; also Prof. of Entomol., Leland Stanford. — Manual of Insect Life, econ. entomol., systematic entomol.

*Insect. Anat., Life Hist., and Classification. Lab. xxv, 21, O.—D.; also Ap.—Jun.

*Entomol. Lects. iii, 9, Ap.—Jun.

*Entomol. 3 lects., field and lab., 10, Jun.—S.

*Invert. Zoölogy (with Mr. MacGillivray). Lab. 21, O.-D.; also Ap.-Jun.

SIMON H. GAGE, Prof. of Anat., Histol., and Embryol.

B.S., Cornell, '77; Instr. in Microscopy and Pract. Physiol., same, '78-'81. — Microscopy, anat., vertebrate histol., embryology.

*Anatom. Methods and Gross Anat. iii, 12, O.-D.

*Microscope and Micros. Methods. iii, 11, Ja.-Mar.

*Methods and Els. Embryol. iv, 9, Ap.-Jun.

*Vertebrate Zoöl. Lab., daily, 32.

*Vert. Histol. Lab., daily, 32.

GEORGE F. ATKINSON, Prof. of Botany.

Ph.B., Cornell, '85; Prof. of Entomol., Univ. of N. Car., '85-'8; Prof. of Botany and Zoölogy, Univ. of So. Car., '88-'9; Alabama Polytechnic Inst., '89-'92; Asst. Prof. of Cryptogamic Bot., Cornell, '92-'3; Assoc. Prof. Botany, '93-'6. — Biology of Ferns, Lemnaceae of U. S., leguminous tubercles, crypt. bot.

*Comp. Morphology and Embryology of Plants. iii, 32.

*Mycology. iii, 32.

*Algology. ii, 32.

*Research in Cryptogamic Botany. —? 32.

*Seminary. —?

WILLARD W. ROWLEE, Asst. Prof. of Botany.

B.L., Cornell, '88; Sc.D., same, '93; Asst. in Bot., Agricult. Exper. Station; Instr. in Bot.

*Systematic Botany. iii, 32.

*Comp. Histology. iii, 32. (With Mr. Wiegand.)

*Dendrology. ii, 11, Ja.-Mar.

*Geographical Distrib. Plants. iii, 9, Ap.-Jun.

*Special Investigations. —? 32. (With Mr. Wiegand.)

E. J. DURAND, Instr. in Botany.

A.B., Cornell, '93, and Sc.D., '95. — Myxomycetes.

Comp. Morphol. and Embryol. of Plants. Lab. —? 32.

B. B. STROUD, Instr. in Physiology, Vertebrate Zoölogy, and Neurology.

B.S., Cornell, '91, and Sc.D., '94.

*Histology of Nervous Systems. iii, 9, Ap.-Jun.

*Vertebrate Zoölogy. ii, 11, Ja.-Mar. (With Dr. Wilder.)

*Neurology. ii, 9, Ap.-Jun. (With Dr. Wilder.)

GRANT S. HOPKINS, Instr. in Anatomy, Embryology, and Microscopy.

B.S., Cornell, '89, and Sc.D., '93.

*Adv. Anatomy. Lects. and lab., daily, 32.

*Embryology and Microscopy. Lab., daily, 9, Ap.-Jun.

LIBERTY H. BAILEY, Prof. of Gen. and Exper. Horticulture.

B.S., and M.S., Mich. Agricult. Col. — Annals of Horticulture, Horticult. Manuals, Ed. Gray's Field, Forest and Garden Botany.

*Organic Evolution. iii, 12, O.-D.

*Botany of Cultivated Plants. i, 11, Ja.-Mar.

HARVARD.

26 Graduate Students, 1895-6.

Museum Compar. Zoölogy, founded by Louis Agassiz, 1859 (Alexander Agassiz, curator), has collections, under the charge of museum assts., and available for scientific study. Lib. of 25,000 vols., and half as many pamphlets on Zoölogy and Paleontology. Humboldt Fund maintains one or more students at Museum, Newport Marine Lab., or Wood's Holl U. S. F. C. Stat. Investigations are published in the Bull. Mus. Comp. Zool. Botanic garden of 7 acres offers facilities for investiga. Herbarium of over 200,000 species, incl. types of Synoptical Flora of N. A. Bot. lib. at Herbar. of over 9,000 vols. Bot. Mus., incl. Blaschka glass models. Extensive cryptogamic herb. Zoölogical and Botanical Clubs. Schol. of \$250, open to students in Zool., also a table at Naples Zool. Stat.

Harvard — Continued.

GEORGE L. GOODALE, Prof. of Natural History and Dir. of the Botanic Garden.

A.B., Amherst, '60; M.D., Harv., '63; A.M. (hon.), Amherst, '66, and Bowd., '69; M.D., Bowd., '63; LL.D., Amherst, '90, and Bowd., '94. — Assoc. Ed. *Am. Jour. Sci. and Arts*, physiol. and econom. bot.

*Syst. and Economic Botany. iii, 30.
Phanerogams. Exper. Veg. Physiol.
Syst. Botany. Economic and Med.
Botany. Research. —?

WILLIAM G. FARLOW, Prof. of Cryptogamic Botany.

A.B., Harv., '66, A.M., '69, and M.D., '70. — Biol. in colleges, diseases of trees, N. Am. fungi, Marine Algæ of N. Eng., etc.

*Cryptogamic Botany. iii, 15, F.—My.
(With Prof. Thaxter.)
Structure and Devel. of Cryptogams.
Research. —? (With Prof. Thaxter.)

ROLAND THAXTER, Asst. Prof. of Cryptogamic Botany.

A.B., Harv., '82; Ph.D., same, '88. — Mycology, morphol. and systematic, econ. mycology.

*Special Morphology and Class. of Cryptogams. Lab. —?

HERBERT L. JONES, Instr. in Botany.

A.B., Denison, '86, and A.M., '87; A.B., Harv., '92, and A.M., '93.

*Morphol., Histol., and Physiol. of Flowering Plants. iii, 30.

EDWARD L. MARK, Prof. of Anatomy.

A.B., Mich., '71; Ph.D., Leipzig, '76; Instr. Math., Mich., '71-2; Instr. Zool., Harv., '77-83; Asst. Prof., '83-6. — Ed. Contrib. from Zool. Lab. Mus. Comp. Zool. at Harv., since '83, anat. and histol. of Coccidæ and Phylloxera, maturation, fecundation and cleavage in Limax, etc.

Anat. and Devel. of Verts. and Invertebrates. Research. —?

*Microscop. Anatomy. iii, 15, O.—Ja.
(With W. M. Woodworth, Ph.D.)

*Embryology of Vertebrates. iii, 15, F.—My. (With an Asst.)

CHARLES B. DAVENPORT, Instr. in Zoölogy.

S.B., Brooklyn Polytech. and Col. Inst., '86; A.B., Harv., '89; Ph.D., same, '92. — Non-sex. reprod., esp. in Bryozoa, Urnatella.

*[Exper. Morphol. Ontogenesis. ii, 30.]

*Exper. Morphol. Phylogenesis. ii, 30.

GEORGE H. PARKER, Instr. in Zoölogy.

S.B., Harv., '87; Sc.D., same, '91; Biologist Mass. State Bd. of Health, '89-'90; Instr. Zool., Harv., '88-'91. — Compound eyes in Arthropods, animals of drinking water, etc.

*[Nervous System and its Terminal Organs. Sense Organs. iii, 15, O.—Ja.]

*Nervous System and its Terminal Organs. Central Nervous Organs and Terminal Organs of Efferent Nerves. iii, 15, O.—Ja.

*Comp. Anat. of Vertebrates. iii, 30.
(With an Asst.)

JOHNS HOPKINS.

31 Graduate Students, 1895-6.

Marine Lab. in Zool. open part of the year. Students have access to Capt. J. D. Smith's private herbar. of 78,000 sheets, espec. flora U. S. and Am. tropics; also to Schimper Coll. Europ. phanerogams and Fitzgerald Coll. of mosses. Journal Club meets weekly. Twelve adv. lects. in Zool. by instructors and fellows. Adam T. Bruce Fellowship in Zool.

W. K. BROOKS, Prof. of Zool. and Dir. Chesapeake Zool. Lab.

A.B., Williams, '70; Ph.D., Harvard, '75; LL.D., Williams, '93. — Ed. Studies from Biol. Lab.

Princs. of Zool. iii, 12, Ja.—Mar.
Zool. Journal Club. i, 24, O.—Mar.
Marine Zool. i, 12, Ap.—Jun.
Zoölogy Seminary. i, 24, O.—Mar.

W. H. HOWELL, Prof. of Physiology.

A.B., Johns Hopkins, '81; Fellow, '82-4, and Ph.D., '84; Lect. and Prof. Physiol. and Histol., Mich., '89-'92; M.D., Mich., '90; Assoc. Prof. Physiol., Harv., '92-3.

Animal Physiol. iv, 30, with lab. v, 12.

Physiol. Seminary. i, 30.
 Physiol. Journal Club. i, 30.
 Adv. Lab. Work. —?

E. A. ANDREWS, Assoc. Prof. of Biol.
 Ph.B., Yale, '81; Ph.D., Johns Hopkins, '87.
 Embryology. —?

J. E. HUMPHREY, Lecturer.
 Vegetable Morphol. ii, 30.

LELAND STANFORD, JR.

15 Graduate Students, 1895-6.

Hopkins Lab. of Nat. Hist., located at Pacific Grove, on the Bay of Monterey, is a branch of the biol. work.

OLIVER P. JENKINS, Prof. of Physiol. and Histol.

A.B., Moore's Hill Col., '69, and A.M., '72; M.S., Indiana, '86, and Ph.D., '89; Prof. of Natural Science, Moore's Hill, '76-'82; Prof. Biology, De Pauw, '86-'91.

*Special Courses in Physiol. (adv.) ii-v, 32. (With Mr. Greene.)
 Adv. Physiol. and Histol. Research. —?

*Journal Club. i, 32.
 Sem. in Physiol. and Histol. ii, 32.
 (With Mr. Greene and Prof. McFarland.)

J. H. COMSTOCK, Prof. of Entomology.

B.S., Cornell, '74; Instr. in Entomology, '73-7, Asst. Prof., '77-'82; U. S. Entomologist, at Washington, '79-'81; Prof. of Entomology and Gen. Invert. Zoölogy, Cornell, since '82.

*Morphology and Classification of Coccidæ. iii, Ja.-Mar.

CHARLES H. GILBERT, Prof. of Zoöl.

B.S., Butler, '79; M.S., Indiana, '82, and Ph.D., '83; Asst. in Nat. Sci. and Mod. Lang., Indiana, '80-4; Prof. of Nat. Hist., Cincinnati, '84-8; Prof. of Zoölogy, Indiana, '88-'91; Asst. to U. S. Fish Commission, '80-'91.

Adv. Research. —? •

*Adv. Ichthyology. iii, 32.

DOUGLAS H. CAMPBELL, Prof. of Bot.

Ph.M., Michigan, '82, and Ph.D., '86; Prof. of Botany, Indiana, '88-'91.

Adv. work in Gen. Botany. —?

WILLIAM R. DUDLEY, Prof. of Botany.

B.S., Cornell, '74, and M.S., '76; Instr. in Botany, Cornell, '72-6, Asst. Prof., '76-'92.

Adv. work in Biol. of Spermatophytes and Fungi. v, 32.

VERNON L. KELLOGG, Assoc. Prof. of Entomology.

B.S., Kansas, '89, and M.S., '92; Asst. Prof. Entomology, Kansas, '90-3; Assoc. Prof., '93-4.

Adv. Lab. work. ii-v, 32.

*Comp. Morphol., and Taxonomy of Insects. i, 14, S.-D.

GEORGE C. PRICE, Asst. Prof. of Zoöl.

B.S., De Pauw, '90.

*Adv. Embryology. ii, 32.

CHARLES W. GREENE, Instr. in Physiol.

A.B., L. S. J. U., '92; A.M., same, '93.

*Blood and Circulation (adv.) iii, 14, S.-D.

FRANK M. MCFARLAND, Asst. Prof. of Histology.

Ph.B., De Pauw, '89; A.M., Stanford, '93; Asst. in Biology, De Pauw, '88-9; Prof. of Biology, Olivet, '89-'92; Ph.D., Würzburg, '96.

*Special Courses in Histology and Cell Morphology. ii-v, 14, S.-D.

*Cellular Phenomena of Reproduction. ii, 18, Ja.-My.

MICHIGAN.

7 Graduate Students, 1895-6.

VOLNEY M. SPALDING, Prof. of Bot.

A.B., Michigan, '73; Ph.D., Leipzig, '94. — Intro. to study of botany, traumotropic curvature of roots.

*Morphol. and Class. of Fungi. iii-v, 17, O.-F.

*Morphol. and Class. of Phanerogams. iii-v, 17, F.-Jun.

Michigan — Continued.

Original work in Morphology and Classification. —?

F. C. NEWCOMBE, Asst. Prof. of Bot.

B.S., Michigan, '90; Instr. in Botany, same, '90-2; Ph.D., Leipzig, '94. — Spore dissemination in Equisetum, effect of mechanical resistance, plant tissues, etc.

*Cell Morphol. and Physiol. iii-v, 17, O.-F.

*Vegetable Physiol. iii-v, 17, F.-Jun.
Original work in Physiology. —?

JACOB E. REIGHARD, Prof. of Zoölogy.

Ph.B., Mich., '82; Instr. in Zool., same, '86-7; Act. Asst. Prof. Zool., '87-8; Asst. Prof., '89; Dir. Scientific Work, Mich. Fish Com., since '89. — Morphology Oligochæta, Embryology Teleosts, etc.

*Comp. Embryology and Anatomy of Vertebrates. v, 34, O.-Jun.

Current Lit. of Zoölogy. i, 34, O.-Jun.

Original work in Zoölogy. —?

Field Club Work. iii, 17, F.-Jun.
(With Prof. Worcester and Dr. Lillie.)

DEAN C. WORCESTER, Asst. Prof. of Zoölogy and Curator of Zool. Coll.

A.B., Mich., '87; Asst. in Botany, '87-'90. — Birds and Mammals of Philippine Islands, Structure Protozoa.

Study of Special Groups. —?

FRANK R. LILLIE, Instr. in Invert. Zool.

A.B., Toronto, '91; Reader in Embryology, Chicago, '93-4, and Ph.D., '94; Instr. Marine Biol. Station, Wood's Holl, 94-5. — Embryology Unionidae.

*Invert. Morphology. iii, 34, O.-Jun.
Experimental Morphol. i, 17, O.-F.

W. H. LEWIS, Asst. in Zool. Lab.

B.S., Mich., '94.

Mammalian Anatomy. v, 34, O.-Jun.

W. P. LOMBARD, Prof. of Physiol. and Histology.

A.B., Harv., '78; M.D., same, '81; Asst. in Physiol., Col. Phys. and Surg., N. Y., '88-9; Asst. Prof. Physiol., Clark, '89-'92.

*Physiology. v, 34, O.-Jun.

*Physiology. Lab. i, 17, O.-F., or F.-Jun.

*Physiological Exper. i, 17.

Physiological Research. —? 34, O.-Jun.

F. G. NOVY [see 15].

Lab. work in Bacteriology. x, 12, O.-D., Ja.-Ap., or Ap.-Jun.

G. CARL HUBER, Asst. Prof. of Histol.

M.D., Mich., '87; Asst. Demonstrator Anat., '87-9. — Lab. guide for work in histol.

*Vertebrate Histol. v, 34, O.-Jun.

*Methods of Vert. Histol. ii, 17, F.-Jun.

Micros. Anat. of Brain and Special Sense Organs of Verts., esp. Man. v, 17, F.-Jun.

MINNESOTA.

Animal Biology, 3; Botany, 10; — Graduate Students, 1895-6.

Herbarium of 160,000 specimens. Bot. Lib. 2,000 vols. and 2,000 pams. Pub. quarterly "Minn. Bot. Studies."

HENRY F. NACHTRIEB, Prof. of Animal Biology.

B.S., Minn., '82; Fel. Biology and Asst. Biol. Lab., Johns Hopkins, '82-4; State Zoölogist of Geol. and Nat. Hist. Survey. — Reports on Zoölogical Survey in Minn.

Research in Vert. and Invert. Embryol. and Morphol. —? 36.

Individual lab. work directed. —? 36.

CONWAY MACMILLAN, Prof. of Bot.

A.B., Univ. of Neb., '85; Asst. Geologist, Univ. of Neb., '85-6; A.M., '86; Instr. in Botany, Minn., '87; Asst. Prof. of Botany, '90; State Botanist, Geol. and Nat. Hist. Survey. — The Metaspermæ of Minn. Valley, var. reports and articles, Ed. *Quarterly Bulletin*, Ed. *Minnesota Botanical Studies*.

Comp. Gametophytic Anatomy and Embryology. iv, 12, S.-N.

Comp. Sporophytic Anatomy and Embryology. iv, 24, N.-J.

Phytodynamics and Ecology. iv, 12, S.-N.

Phytocytology, Structural and Dynamic. iv, 36.

Experimental Embryology and Organogeny. iv, 36.

Research in some selected line. —? 36.

Special Plant Morphology and Embryology. iv, 36.

D. T. MACDOUGAL.

A.M., De Pauw, '83, and B.S., '90; M.S., Purdue, '91; Instr. in Bot., Purdue, '90-2; Special Agent Bot. Div. U. S. Dept. of Agric., '91-2. — Trans. Oels Exper. Plant Physiology, text-book on exper. plant physiology, botanical papers.

*Special Problems in Plant Physiology. iv, 36.

Irritability. Directive and Formative Infl. of External Factors. iv, 36.

E. P. SHELDON, Instr. in Bot.

B.S., Minn., '93. — Botanical papers.

Special Taxonomy. iv, 36.

NEW YORK.

4 Graduate Students, 1895-6.

CHAS. L. BRISTOL, Prof. of Biology.

M.S., N. Y. U., '86; Fel., Clark, '92-3; Senior Fel., Chicago, '93-5.

Invert. Morphology. ii, 30.

NORTHWESTERN.

4 Graduate Students, 1895-6.

1 Fellowship, \$400.

WILLIAM A. LOCY, Prof. of Zoöl.

B.S., Michigan, '81, and M.S., '84; Fellow, Harvard, '84-5; Ph.D., Chicago, '94.

*Topics of investigation in Animal Morphology (intro. to orig. research). v, 36, and x, 36.

Research. Independent Problems in Animal Morphology and Neurology. x, 36, and xv, 36.

CHARLES B. ATWELL, Prof. of Bot.

Ph.B., Syracuse, '79, and Ph.M., '81; Prof. in Biology, Northwestern, '91-4.

*Special Problems in Botany. ii, 36.

*Botanical Club. i, 36.

PENNSYLVANIA.

18 Graduate Students, 1895-6.

Heyden and Leidy Libs. of Geol., Palæontol., Zool. and Bot., 2,000 vols. Biol. Hall has spec. Labs. for Grad. work. Wistar Inst. of Anat. and Biol. with its Colls. is entirely devoted to Grad. work. Botan. Gardens contain about 3,000 native and exotic plants. Complete coll. of veg. products used in U. S. Pharmacopæia. 1 Fel. \$600, 1 Schol. \$100.

HORACE JAYNE, Prof. of Zoöl. and Dir. Wistar Inst. of Anat. and Biol.

A.B., Univ. of Pa., '79; M.D., same, '82; Asst. Instr. in Biol., '83; Prof. Vert. Morphol., '84; Dean of Col., '89-94; Ph.D., Franklin and Marshall, '95. — Monstrosities in N. A. Cleoptera, Revision of N. A. Dermeotidæ.

Osteol. of Mammalia. iv, 30.

JOHN M. MACFARLANE, Prof. of Bot.

B.S., Edinburgh, '79; Instr. in Bot., Royal Dick Col., '81; Univ. Asst. Lect. (Edin.), and Cur. Herbar., Royal Botan. Garden, '83; Asst. Prof., Edinburgh, '89. — Minute Structure of Plant Hybrids, etc.

Plant Anat. vi, 15, O.-F.

Research. —? 30.

Comp. Morphol. of Nat. Orders of Plants. iii, 30.

Lab. work. ix, 30.

EDWIN G. CONKLIN, Prof. of Comp. Embryol.

B.S., Ohio Wesleyan, '85, A.B., '86, and A.M., '89; Asst., Biol. Lab., Johns Hopkins, '89; Fel. Biol., same, '90, and Ph.D., '91; Prof. Biol., Ohio Wesleyan, '91-4; Prof. Zoöl., same, '94-6. — Fertil. of Ovum, Embryol. of Crepidula.

Comp. Histol. xii, 30.

Comp. Embryol. xii, 30.

Pennsylvania — Continued.

Devel. and Struct. Nervous System
(adv). Lab. vi-xii, 30.
Phenom. and Causes of Heredity.
Lects. i, 30.

EDWARD D. COPE, Prof. of Zoöl. and
Comp. Anat.

A.M., Haverford; Ph.D., Heidelberg; Prof.
Nat. Sci., Haverford, '64-7; Prof. Geol.,
Univ. of Pa., '89-93; Prof. Zoöl. and Comp.
Anat., '93-96. — Palæontol. of New Mex.,
Vert. Palæontol., Origin of Fittest, Prim.
Factors of Organ Evolution.

Major Course. Organog., Osteol., and
Odontog. of Verts., with Palæontol.
Time Hist. of any Organ of Vert.
iv, 30.

Minor Course. Toxon., Palæontol.,
and Organog. of Verts. ii, 30.

PRINCETON.

4 Graduate Students, 1895-6.

*1 Fellowship of \$400, and 1 giving free use of
table at U. S. F. C. station, Wood's Holl.
Besides enumerated courses, a special
research course in Biol., varying to meet
needs of students, is offered to Graduates.*

GEORGE MACLOSIE, Prof. of Biol.

A.M., Queen's Univ., Belfast, '58; LL.D.,
London, '71; Sc.D., Queen's Univ. — Ele-
mentary Botany, Investigations on Diptera.

*Invert. Morphol. ii, 16, F.-My.
*Physiology. ii, 16, S.-Ja.

WILLIAM LIBBEY [see 17].

*Pract. Histology. ii, 16, F.-My.

W. B. SCOTT [see 17].

*Morphology of Extinct Verts. Palæon-
tology. iv, 16, F.-My.

W. M. RANKIN, Instr. in Biol. and Cura-
tor Zoöl. Mus.

A.B., Princeton, '84; Ph.D., Munich.

Anat. and Embryol. Mollusca. ii, 32.

C. F. W. McCLURE, Asst. Prof. of Biol.

A.B., Princeton, '88, and A.M.

*Embryology. ii, 16, F.-My.

*Mammalian Anatomy. ii, 16, S.-Ja.

RADCLIFFE.

6 Graduate Students, 1895-6.

GEORGE L. GOODALE.

*Systematic and Economic Botany.
Lab. ix, and occasional lects., 30.

Economic Botany (adv). i, and lab.,
30.

A. R. SWEETSER.

*Cryptogamic Botany. iii, and lab., 30.

H. L. JONES AND F. O. GROVER.

*Botany (2d course). iii, and lab. vi,
30.

E. L. MARK.

*Microscop. Anat. iii, and lab., 15,
O.-Ja. (With an Asst.)

*Embryol. of Verts. iii, and lab., 15,
F.-My. (With an Asst.)

Research (adv). —?

G. H. PARKER.

*Comp. Anat. of Verts. iii, and lab.,
30. (With an Asst.)

*[Nervous System and its Terminal
Organs. Sense Organs. iii, 15,
O.-Ja.]

*Nervous System and its Terminal
Organs. Central Nervous Organs
and Terminal Organs of Efferent
Nerves. iii, 15, O.-Ja.

C. B. DAVENPORT.

*[Exper. Morphology. Ontogenesis.
iii, and lab., 30.]

*Exper. Morphology. Phylogenesis.
iii, and lab., 30.

TULANE.

o Graduate Students, 1895-6.

Extensive museum coll. of specimens.

HENRY B. ORR, Prof. of Biology.

Ph.D., Jena, '85. — Vertebrate embryology, theory of development and heredity.

Vert. Embryology. Lab. —?

Invert. Zoölogy. Lab. —?

Special Courses. —?

VANDERBILT.

3 Graduate Students, 1895-6.

JAMES M. SAFFORD, Prof. of Nat. Hist. and Geol.

A.B., Ohio Univ., '42; M.D., Ph.D., Yale, '44; State Geologist of Tenn. — Reports on Geol. of Tenn.

*Adv. Palæontology. iii, 32.

PAUL M. JONES, Instr. in Nat. Hist. and Geol.

B.S., Vanderbilt, '89, M.S., '91, and Sc.D., '92.

Morphol. of Invert. iii, and lab., 32.

Vert. Embryol. iii, and lab., 32.

WELLESLEY.

2 Graduate Students, 1895-6.

SUSAN M. HALLOWELL, Prof. of Bot.

A.M., Colby, '75.

*Vegetable Histol. and Physiol. iii, 35.

*Vegetable Embryol. and other special topics. iii, 35.

CLARA E. CUMMINGS, Assoc. Prof. of Cryptogamic Bot.

*Cryptogamic Botany. iii, 35.

*Cryptogamic Bot. (adv). iii, 35.

GRACE E. COOLEY, Assoc. Prof. of Bot.

A.M., Brown, '93; Ph.D., Zürich, '94.

*Medical Botany. iii, 35.

MARY A. WILLCOX, Prof. of Zoöl.

*[Philosophical Zoöl. iii, 35.]

AGNES CLAYPOLE, Instr. in Zoöl.

Ph.B., Buchtel, '92; M.S., Cornell, '94.

*Anatomy of the Cat. iii, 17, S.-Ja.

*Embryology of the Chick. iii, 17, F.-Jun.

EDITH CLAYPOLE, Instr. in Physiol.

Ph.B., Buchtel, '92; M.S., Cornell, '93.

*Animal Histol. and Histol. Methods. iii, 35.

WESTERN RESERVE.

o Graduate Students, 1895-6.

F. H. HERRICK, Prof. of Biology.

Ph.D., Johns Hopkins, '88; Instr. in Biology, Adelbert, '88-'91; Prof. same, '91.-pr — Crustacea, American lobster.

*Animal Morphol. i, and lab. iv, 16, S.-F.

Animal Morphol. iii, 16, S.-F.

*Vert. Embryol. iii, 17, F.-Jun.

*Botany, or Vegetable Morphol. iii, 17, F.-Jun.

*Mammalian Anatomy. iii, 16, S.-F.

*Animal Physiol. and Histol. iii, 17, F.-Jun.

Animal Physiol. and Histol. iii, 17, F.-Jun.

WISCONSIN.

4 Graduate Students, 1895-6.

EDWARD A. BIRGE, Prof. of Zoölogy.

A.B., Williams, '73; Instr. in Nat. Hist., Wisconsin, '76-9; Ph.D., Harvard, '78. — Disease germs, bacteria, etc.

Adv. Invert. Zoöl., and special work in lake life. x, 36.

CHARLES R. BARNES, Prof. of Botany.

A.B., Hanover, '77; Prof. Bot. and Geol., Purdue, '80-5. — Botanical studies, mosses.

Wisconsin — Continued.

Vegetable Organogeny and Embryology. x, 18, F.-Jun.
Vegetable Physiology. x, 36.
Bryology. x, or xv, 36.

HARRY L. RUSSELL, Asst. Prof. of Bacteriology.

A.B., Wisconsin, '88; Fel. in Biol., same, '88-'90; Ph.D., Johns Hopkins, '92; Fel. in Biol., Chicago, '92-3. — Dairy Bacteriology.

*Gen. Bacteriology. x, 18, S.-F.
Dairy Bacteriology. x, 18, S.-F., or F.-Jun.
Agric. Bacteriology. x, 18, S.-F.

WILLIAM S. MILLER, Asst. Prof. of Vertebrate Anatomy.

Adv. Histology. x, 18, F.-Jun.

WILLIAM S. MARSHALL, Asst. Prof. of Biol.

A.B., Swarthmore, '88; Ph.D., Leipzig, '92.
Invert. Embryology. x, 18, F.-Jun.
Thesis Work in Invert. Zool. —?
(With Prof. Birge.)

WILLIAM D. FROST, Asst. in Bacteriology.

Scholar in Bot., Minn., '93-4; Asst. in Bact. Lab. Minn. State Board of Health, '94-5.

Adv. Bacteriology. x, 18, F.-Jun.
(With Prof. Russell.)

*Sanitary Bacteriology. vi, 18, S.-F.

YALE.

19 Graduate Students, 1895-6.

W. R. COE, Instr. in Biol.

Ph.B., Yale, '92, and Ph.D., '95. — Papers on biology and embryology.

Cytology and Gen. Embryol. iv, 12, O.-D.

A. E. VERRILL, Prof. of Zool.

S.B., Harv., '62; A.M., Yale, '67; Prof. Comp. Anat. and Entomol., Wis. — Anatomy, taxonomy, and distrib. animals, esp. Am. inverts.

Zoology. Lab., recit., and lects. viii, 32.

S. I. SMITH, Prof. of Comp. Anat.

Ph.B., Yale, '67, and A.M., '87. — Anatomy, devel. taxonomy, and distrib. of crustacea.

*Anat. and Histol. (cl). Lab. iv, 12, O.-D.

*Comp. Anat. and Gen. Biol. Lab. vi, 20, Ja.-Jun.

Comp. Anat. and Gen. Biol. (adv). Lab. 5 days per wk.

R. H. CHITTENDEN, Prof. of Physiol. Chem.

Ph.B., Yale, '75, and Ph.D., '80; Instr. Phys. Chem., same, '76-'82. — Ed. Studies fr. Lab. Physiol. Chem., Yale, '84-9. Assoc. Ed. *Jour. of Physiol.*, origin, action, and composition of var. chem. subs. in animal body, esp. action of digestive juices.

L. B. MENDEL, Instr. in Physiol. Chem.

A.B., Yale, '91, and Ph.D., '93.

R. H. CHITTENDEN AND L. B. MENDEL.

Physiol. Chem. (adv). Lab. iv, daily, lects. and recit., iii-iv, 32.

Exper. Physiol. ii, 32.

Exper. Toxicol. ii, 12, Easter-June.

*Physiol. i, 32.

*Physiol. Chem. (cl). iv, 20, Ja.-Jun.

C. E. BEECHER, Asst. Prof. of Palæontol.

B.S., Mich., '78; Ph.D., Yale, '89. — Brachiopoda, sponges, corals, crustacea.

Invert. Palæontology. Lab. iii, daily.

A. W. EVANS, Instr. in Bot. and Bacteriol.

Ph.B., Yale, '90, and M.D., '90. — Publications on Hepaticæ.

*Botany. iii, 12, Easter-Jun.

Microscopic Anat. of Plants. ii, 32.

J. W. SEAVER, Assoc. Dir. of Gym.

A.B., Yale, '80, and M.D., '85. — Physical culture.

*Physiology, Hygiene. i, 32.

W. S. ANDERSON, Assoc. Dir. of Gym.

M.D., West. Res., '83. — Several works on physical training.

*Theory of Gymnastics. Hist., Means, Pedagogy. i, 32.

17. GEOLOGY AND GEOGRAPHY.

[Including Palaeontology (in part), Lithology, and Mineralogy. See also 15 and 16.]

BRYN MAWR.

2 Graduate Students, 1895-6.

FLORENCE BASCOM, Lecturer in Geol.

A.B., L.B., Wisconsin, '82; B.Sc., '84, and A.M., '87; Ph.D., Johns Hopkins, '93; Asst. in Geol. and Instr. in Petrography, Ohio State Univ., '93-5.

Lects. on Mineralogy. ii, 30.

*Lects. on Geology. ii, 30.

CALIFORNIA.

10 Graduate Students, 1895-6.

Special opportunities offered for actual work in the field. 1 Fel. in Mineralogy, \$500.

JOSEPH LECONTE, Prof. of Geol. and Natural Hist.

A.M., Georgia; M.D., New York; B.S., Harvard; LL.D., Georgia.

Lects. on Mountain Structure and Origin. Organic Evolution in Geol., Quaternary Geol., the Glacial Epoch in Cal. —?

ANDREW C. LAWSON, Assoc. Prof. of Geol. and Mineral.

A.M., Toronto; Ph.D., Johns Hopkins.

Research in Inorganic Geol. —?

SAMUEL B. CHRISTY, Prof. of Mining and Metallurgy.

Ph.B., Univ. of Cal.

Ore Dressing. ii, 32.

Research in Ore Dressing and Metallurgy of Gold and Silver. —?

JOHN C. MERRIAM, Instr. in Palaeontol.

Ph.D., Munich.

Research in Palaeontol. —?

CHICAGO.

27 Graduate Students, 1895-6.

3 Fellowships.

THOMAS C. CHAMBERLIN, Head Prof. of Geology.

A.B., Beloit, '66, and A.M., '69; Ph.D., Michigan and Wisconsin, '82; Pres., Wisconsin, '87-'92; LL.D., Michigan, Beloit, and Columbian, '87.

*Principles and Methods of Geol. v-x, 18, O.-F.

*Seminar. Glacial Geol. v-x, 6, F.-Mar.

*Geol. Life Devel. v, 12, Ap.-Jun.

*Special Geol. v-x, 48. (With Prof. Salisbury.)

*Local Field Geol. v-x, 48. (With Prof. Salisbury.)

Professional Geol. lx, 12, Jul.-S.

Independent Field Work. lx, 12, Jul.-S.

General Geol. Seminar. i, 36, O.-Jun.

ROLLIN D. SALISBURY, Prof. of Geographic Geol.

Ph.B., Beloit, '81, and A.M., '84; Prof. Geology, same, '84-'91; Prof. Gen. and Geographic Geol., Wisconsin, '91-2.

*Geographic Geol. v-x, 12, O.-D.; also Jul.-Au.

*Lab. work in Geog. Geol. v, 6, N.-D.

*Structural Geol. and Continental Evolution. v-x, 12, Ja.-Mar.

*General Geol. v-x, 12, Ja.-Mar.

Dynamic Geog. (adv). v-x, 6-12, Ja.-Mar.

*Field Class in Geol. lx, 4, Au.-S.

JOSEPH P. IDdings, Prof. of Petrology.

Ph.B., Sheffield Scientific School, '77; Asst. Geologist, U. S. Geog. Survey, '80-8; Geologist, '88-'92.

Chicago — Continued.

- *Geometrical and Physical Crystallog. v, 18, O.-F.
- *Descriptive Mineralogy. v, 12, F.-My.
- *Petrology. v, 12, Ap.-Jun.
- *Petrography (adv). v-x, 36, O.-Jun.
- Petrology (adv). v, 6-12, Ap.-Jun.
- Field Petrology. —?

RICHARD A. F. PENROSE, JR., Prof. of Economic Geol.

A.B., Harv., '84, and Ph.D., '86; U. S. Geol. Survey, '84-6; Geol. Survey, Texas, '88-9; Geol. Survey, Arkansas, '89-92.

- *Economic Geol. v, 12, Ja.-Mar.
- *Chem. of Ore Deposits. v, 12, Ja.-Mar.

WILLIAM H. HOLMES, Prof. of Archaeologic and Graphic Geol.

Geologist, U. S. Geol. Survey, '80-9; Archaeologist, U. S. Bureau Ethnology, '89-93; Director, Field Columbian Museum, '94.

- *Archæologic Geol. ii, 12, Ap.-Jun.
- *Graphic Geol. ii, 12, Ap.-Jun.

CHARLES R. VANHISE, Non-Res. Prof. of Pre-Cambrian Geol.

B.Met.E., Wisconsin, '79, and S.M., '82; Ph.D., same, '92; Prof. Geology, same, '88.

- *Pre-Cambrian Geol. v, 6, Ja.-Mar.
- *Lab. course on Pre-Cambrian Rocks. v, 6, Ja.-Mar.

OLIVER C. FARRINGTON, Instr. in Determinative Mineralogy.

- *Determinative Mineralogy. Lab. x, 6, My.-Jun.

STUART WELLER, Asst. in Palæont. Geol.

B.S., Cornell, '94; Asst., Missouri Geol. Survey, '90; Asst., U. S. Geol. Survey, '91; Asst. Palæontol., Cornell, '92-3; Asst. in Geol., same, '93-4; Asst. in Palæontol., Yale, '94-5.

- *Intro. to Palæontol. Geol. v, 12, O.-D. Palæozoic Life, Ja.-Mar. Mesozoic Life, Ap.-Jun.
- *Special Palæontol. Geol. v-x, 36, O.-Jun.

COLUMBIA.

13 Graduate Students, 1895-6.

Geological museum of about 100,000 specimens. Study may be prosecuted in Am. Mus. of Nat. Hist. Mineralogical Coll. of 26,000 labelled spec.

JAMES F. KEMP, Prof. of Geology.

A.B., Amherst, '81; E.M., Columbia, '84; Assoc. Prof., Cornell, '86-91; Adj. Prof., Columbia, '91-2. — Ed. *School of Mines Quarterly*, Ore Deposits of the U. S., Economic Geology, etc.

Economic Geology. iii, O.-My.
[Petrology. Lects. ii, lab. iv, O.-My.]
Comp. Geology. Lects. ii, lab. iv, O.-My. (With Mr. Van Ingen.)

GILBERT VAN INGEN, Curator of Geological Coll.

Invertebrate Palæontology. Lects. ii, lab. iv, O.-My.

CHARLES A. HOLLICK, Tutor in Geology.

Ph.B., Columbia, '79; Fellow in Geol., same, '90; Asst., '92; Tutor, '93; Curator, N. Y. Acad. of Sci., '92-pr. — Assoc. Ed. *Bull. Torrey Bot. Club*, '88-pr., Indian polishing of stones, drift fossils, mineralogy.

Palæobotany. Lects. i, lab. iv, 2 yrs.

ALFRED J. MOSES, Adj. Prof. of Mineralogy.

E.M., Columbia, '82, and Ph.D., '90.

Crystallography. ii, O.-F.
Descriptive and Determinative Mineralogy. Lects. ii, lab. iii, F.-My.; also O.-F. (With Dr. Luquer.)
Minerals of Building Stones. Lects. ii, lab. ii, O.-My. (With Dr. Luquer.)
Math. Crystallography. —?
Mineralogy (adv). —?
Systematic Mineralogy. xx, 2 yrs. (With Dr. Luquer.)

LEA MCL. LUQUER, Tutor in Mineralogy.

E.M., Columbia, '87, and Ph.D., '94.

Optical Mineralogy. —?

CORNELL.

5 Graduate Students, 1895-6.

Museum of Geol., Palæontol., and Mineral. comprises Jewett Coll. N. Y. State fossils, Newcomb Coll. of recent shells, Silliman Coll. of minerals, study collections of minerals and petrographical specimens. 1 Fel. \$500, and Grad. Schol. \$300, assigned to Depts. of Geol. and Botany.

RALPH S. TARR, Asst. Prof. of Dynamic Geol. and Physical Geog.

B.S., Harv., '91; Asst. in Geol., same, '90-1; Asst. Geol., Texas Geol. Sur., '89-90, and U. S. Geol. Sur., '87-9, '91-2. — Economic Geology of U. S., papers on physical geog. and stratig. geol.

- *Physical Geog. Lects. ii, 32.
- *Phys. Geog. Lab. and field, i, 32.
- *Seminary in Geol. ii, 32.
- *Geol. Invest. Lab. and field, i, 32.
- *Geol. Lects. and lab., iii, 11, Ja.-Mar.
- *Economic Geol. Lects. iii, 9, Ap.-Jun.
- *Gen. Geol., esp. Dynamic. Lects. ii, 32.
- *Glacial Geol. Lects. and excursions, iii, 12, O.-D.

GILBERT D. HARRIS, Asst. Prof. of Palæontol.

Ph.B., Cornell, '86; Asst. Palæontol., U. S. Geol. Sur., '88-92; Tertiary Palæontol., Texas Geol. Sur., '92-4. — Tertiary Geol. of So. Ark., Marine Tertiary Mollusca of Texas.

- *Hist. Palæontology. Lects. ii, 12, O.-D.
- *Conchology (el). Lects. and lab., iii, 20, Ja.-Jun.
- Research in Tertiary Invert. Palæontol. Lab. —? 32.

ADAM C. GILL, Asst. Prof. of Mineral. and Petrog.

A.B., Amherst, '84; Ph.D., Munich, '93; Prof. of Math., Park Col., '84-6. — Beiträge zur Kenntniss des Quarztes, petrog. in Mex., Cal., etc., economic geol. in Tenn., Ga., Ala.

- *Mineralogy. iii, 12, O.-D.
- *Mineral. Lects. and lab., iii, 23, O.-Mar.
- *Petrog. Lects. and lab., iii, 23, O.-Mar.

- *Lithology. Lects. ii, 9, Ap.-Jun.
- *Physical Crystallog. Lects. and lab., iii, 12, O.-D.; or 9, Ap.-Jun.
- Mineral. and Petrog. Research. —? 32.

HARVARD.

11 Graduate Students, 1895-6.

[Courses marked R are open to Radcliffe Graduate Students.]

Labs. of Geography, Geol., Mineralogy, Palæontol., and Mineralogy. Mineralogical Museum. Geol. conf. meets weekly. Geol. and geograph. excursions under var. instructors. Orig. investigation for adv. students pursued through the year.

JOSIAH D. WHITNEY, Prof. of Geology.

A.B., Yale, '39; LL.D., same, '70. — Auriferous gravels, earthquakes and volcanoes, geogr. surveys, phys. geog. and metallic wealth of U. S.

- *Econ. Geology. Metals and Metal-liferous Ores. ii-iii, 30.
- *[Econ. Geology. Non-metalliferous Minerals. ii-iii, 30.]
- Geograph. Meth. and Results. Research. —?

NATHANIEL S. SHALER, Prof. of Geology and Dean of Lawrence Scientific School.

S.B., Harv., '62; Sc.D., same, '75. — Ed. The U. S. of Am., Geol., var. works on geol., and scientific papers.

- *Gen. Palæontology. ii-iii, 30. (With Dr. Jackson.)
- *Hist. Geology. i, 30. (With Dr. Jackson.)
- Adv. Palæontology. Lab. Research. —? (With Dr. Jackson.)
- *Geolog. Correlation. Field and lab. —? (With Mr. Woodworth.)
- *Exper. Geology. Field and lab. —? (With Mr. Jaggard.)

WILLIAM M. DAVIS, Prof. of Physical Geography.

S.B., Harv., '69; M.E., same, '71; Asst., Argentine Nat. Obs., Cordova, '70-3. — Triassic formation of Conn., glacial geol., phys. geog., esp. nat. hist. of rivers, meteorology.

Harvard — Continued.

- *Physiography of U. S. iii, 15, F.-My.
- *[Physiography of Europe. iii, 15, F.-My.]
- R) Physiography (adv). Research. i-ii, 30.
- R) Meteorology (adv). Research. i-ii, 30.

JOHN E. WOLFF, Prof. of Petrography and Mineralogy, and Curator of Mineralogical Museum.

A.B., Harv., '79, and Ph.D., '89. — Metamorphism of elastic feldspar, otterelite and ilmenite schist in N. E., etc.

- R) Petrographical Research. Field and lab. —?
- *Physical Crystallography. —? F.-My. (With Dr. Palache.)
- *Petrography. ii-iii, 30. (With an Asst.)

HENRY L. SMYTH, Asst. Prof. of Mining.

A.B., Harv., '83, and C.E., '85; Topographer, U. S. Geol. Survey. — Var. arts. on geol. of Lake Superior regions.

- *Pre-Cambrian Geology of N. Am. —? F.-My.
- *Mining Geology. iii, 30.

ROBERT T. JACKSON, Instr. in Palæontology.

S.B., Harv., '84, and Sc.D., '89.

- *Invertebrate Palæontology. ii, 30.

ROBERT DE C. WARD, Instr. in Meteorology.

A.B., Harv., '89, and A.M., '93. — Ed. *Amer. Met. Jour.*

- *Climatology. iii, 15, O.-Ja.

JAY B. WOODWORTH, Instr. in Geology.

S.B., Harv., '94.

- *Glacial Geology. ii, 15, O.-Ja.
- *Gen. Crit. Geology. ii-iii, 30.

THOMAS A. JAGGAR, JR., Instr. in Geology.

A.B., Harv., '93, and A.M., '94.

- *Exper. and Dynamical Geology. ii, 15, O.-Ja.
- Adv. Geol. Field Work. i, 30. (With Profs. Shaler, Davis, Wolff, and Smyth.)

CHARLES PALACHE, Instr. in Mineralogy.

B.S., Univ. Cal., '91, and Ph.D., '94. — Rocks of the Potrero, soda-rhyolite of Cal., etc.

- *Crystallography. —? O.-Ja.
- R) Mineralogical Research. iii, 30.

JOHNS HOPKINS.

23 Graduate Students, 1895-6.

WILLIAM B. CLARK, Prof. of Organ. Geol.

A.B., Amherst, '84; Ph.D., München, '87; State Geol., Md.; Dir. Md. State Weather Service; Geol., U. S. Geol. Survey. — Stratigraphical Geol. and Palæontol., esp. Eocene of U. S., Mesozoic Echinoderms of U. S., Cretaceous and Tertiary Geol. of N. Y. and Md., Physical Features of Md.

- *Gen. Geol. Lects. iv, and lab. iii, 15, O.-Ja.
- Palæontology. Lects. iii, and lab. v, 30. [Hist. Geol. Lects. iii, and lab. v, 30.]

HARRY F. REID, Assoc. Prof. of Geol. Physics.

A.B., Johns Hopkins, '80; Asst., same, '82-4, and Ph.D., '85; Prof. Math., '86-8; Prof. Physics, '88-93; Lect. in Physics, '93-6.

- *Dynamic Geol. Lects. ii, and lab. iii, 15, F.-Jun.
- Geol. Physics (adv). Lab. ii, 15, F.-Jun.

EDWARD B. MATHEWS, Assoc. in Mineral. and Petrog.

A.B., Colby, '91; Ph.D., Johns Hopkins, '94; Asst. U. S. Geol. Survey, '91-5; Instr. Mineral. and Petrog., Johns Hopkins, '94-5; Asst. Md. Geol. Survey. — Mineralogical and petrographical papers.

- Mineralogy. Lects. iv, and lab. v, 15, F.-Jun.
- Petrography. Lects. iii, and lab. v, 30.

RUFUS M. BAGG, Asst. in Geol.

A.B., Amherst, '91; Ph.D., Johns Hopkins, '95; Asst. N. J. and Md. Geol. Survey.

Assists Dr. Clark in Palæontol. Lab.

GROVE K. GILBERT, Lecturer.

Geologist, U. S. Geol. Survey.

Physiographic Geology. Lects. ii, 12, Ja.-Mar.

BAILEY WILLIS, Lecturer.

Geologist, U. S. Geol. Survey.

Stratigraphic and Structural Geol. Lects. ii, 12, Mar.-Jun.

SIR ARCHIBALD GRIKE, Lecturer.

Dir.-Gen., Geol. Survey Great Britain and Ireland.

Principles of Geol. (George Huntingdon Williams Memorial Lectures.) O.-N., '96.

HERBERT G. GEER, Assoc. in Mechan. Eng.

Mechanical, Map, and Section Drawing. i, 30.

LELAND STANFORD, JR.

5 Graduate Students, 1895-6.

JOHN C. BRANNER, Prof. of Geology.

B.S., Cornell, '82; Ph.D., Indiana, '85; Asst. Geologist, Imp. Geol. Sur., Brazil, '75-8; Special Agent of the U. S. Dept. of Agricult. for Investigating Cotton and Insects affecting it in Brazil, '82-3; Topographical Geol. of Geol. Sur. of Penn., Anthracite District, '83-5; Prof. of Geol., Indiana, '85-'91; State Geol. of Arkansas, '87-'92. — Various publications.

*Econ. Geol. ii, 18, Ja.-My.

*Topog. Geol. ii-v, 32.

Special Adv. Investigations. —?

JAMES P. SMITH, Assoc. Prof. of Mineral. and Palæontol.

A.M., Vanderbilt, '86; Ph.D., Göttingen, '92; Asst. Geol. and Chemist, Arkansas Geol. Sur., '87-'90. — Various publications.

*Adv. Mineral. and Petrography. v, 32.

*Palæontol. ii-v, 32.

L. R. LENOX [see 15].

*Assaying. ii, 18, Ja.-My.

MICHIGAN.

0 Graduate Students, 1895-6.

ISRAEL C. RUSSELL, Prof. of Geol.

B.S., C.E., N. Y. U., '72, and M.S., same, '75; Asst., U. S. Transit of Venus Exp., '74-5; Asst. Prof. Geol., Columbia, '75-7; Asst. Geol., U. S. Surv., 100th Mer., '78; Asst. Geol., and Geol., U. S. Geol. Surv. '80-'92.—Assoc. Ed. *Your. of Geol.*, Reports on Lake Lahontan, Expedition to Alaska, Lakes of N. America, etc.

*Phys. and Glacial Geol. ii, 17, O.-F.

*Palæontol. Invest. ii-iii, 17, F.-Jun.

*Physical Geog. iii, 17, O.-F.

WM. H. PETTEE, Prof. of Mineral., Econ. Geol., and Mining Engineering.

A.B., Harvard, '61, and A.M., '64.

Adv. work in Mineralogy. —? 34, O.-Jun.

MINNESOTA.

9 Graduate Students, 1895-6.

Geological Museum embraces colls. of Geol. Survey of the State and study colls. in Petrology and Palæontology, esp. in anc. eruptives and Lower Palæozoic faunas of northeastern states.

CHRISTOPHER W. HALL, Prof. of Geol. and Mineral., and Dean of Col. of Engin., Metallurgy and the Mechanic Arts.

A.B., Middlebury, '71. — Educational and geological papers.

Granite Rocks in Minn. i, 36.

Pre-Cambrian Eruptives of Northeastern Minn. i, 36.

Lower Palæozoic Formations of Southeastern Minn. i, 36.

Local Glacial Phenomena. i, 36.

*Economic Geol. iv, 13.

*Special Problems. iv, 13.

Minnesota — Continued.

CHARLES P. BERKEY, Instr. in Mineral.

B.S., Minn., '92, and M.S., '93. — Geological and mineralogical papers.

Original Problems. Particular groups of minerals studied. i, 36.

*Gen. Mineralogy. iv, 13.

*Phys. and Chem. Mineral. Optical Characters and Stauroscopic Determinations. iv, 13. Micro-Chem. Methods and Applica. iv, 13.

*Math. Crystallography. iv, 13.

NEW YORK.

2 Graduate Students, 1895-6.

JOHN J. STEVENSON, Prof. of Geology.

Ph.D., N. Y. U., '67; Asst., Ohio Geol. Survey, '71-4; U. S. Geol. Survey, '73-4, '78-80; Asst., ad Geol. Surv. Penn., '75-8, '81-2; LL.D., Col. N. J., '93. — Geology, Carboniferous and Cretaceous.

Economic Geology. iii, 30.

Principles of Geology. ii, 28.

Invert. Palæontology. vi, 30.

NORTHWESTERN.

2 Graduate Students, 1895-6.

OLIVER MARCY, Prof. of Geol.

A.B., Wesleyan, '46, and A.M., '49; LL.D., Chicago, '73.

*Chartography, Glacial Geol., Peneplains. ii, 36.

*Palæontology. ii, 36.

*Current Geol. Lit. i, 36.

Gen. Geol. Seminary. ii, 36.

A. R. CROOK, Prof. of Mineral. and Petrol.

A.B., Ohio Wesleyan, '87; Ph.D., Munich, '92; Prof. Nat. Hist., Wheaton Col., '92-3; Prof. Mineral. and Petrog., Northwestern, '93.

*Adv. investigation of rocks from special localities. iii, 36.

Physical Crystallography. Optical, Thermal, Magnetic, Molecular, and Geometric Properties of Crystals. ii, 36.

PENNSYLVANIA.

21 Graduate Students, 1895-6.

AMOS P. BROWN, Prof. of Mineral. and Geol.

B.S., Univ. of Pa., '86, and E.M., '87; Instr. Mineral. and Metallurgy, '89-'93, and Ph.D., '93. — Const. of Pyrite, mineral. and geol. subjs.

Hist. Geol. and Stratigraphy. ii, 30.

Phys. Geol. i, 15, O.-F.

Chem. Geol. i, 15, F.-My.

Geol. Practicum. iv, 30.

Math. and Phys. Crystallog. i, 15, O.-F.

Syst. Mineral. i, 30.

Chem. and Synthet. Mineral. i, 15, F.-My.

Mineral. Practicum. iv, 30.

PRINCETON.

2 Graduate Students, 1895-6.

WILLIAM LIBBEY, Prof. of Phys. Geog. and Histol., and Dir. Mus. Geol. and Archæol.

A.B., Princeton, '77, and Sc.D., '79. — 4th ed. Smithsonian meteorol. and physical tables, physical investiga. of Gulf Stream.

Relat. of Phys. Geog. to Hist. of Mankind. i, 16, S.-Ja.

W. B. SCOTT, Prof. of Geol.

A.B., Princeton, '77; Ph.D., Heidelberg, '80. — Palæontol., and embryol. of verts., histor. geol., theories of evolution.

*[Physical Geol. ii, 32.]

*Historical Geol. ii, 32.

RADCLIFFE.

0 Graduate Students, 1895-6.

[See Harvard Courses marked R.]

W. M. DAVIS.

*Physiography of U. S. iii, 15, F.-My.

*[Physiography of Europe. iii, 15, F.-My.]

J. B. WOODWORTH.

*Gen. Critical Geol. ii-iii, 30. (With an Asst.)

C. R. EASTMAN.

*Structural Palæontol. iii, 30.

R. DEC. WARD.

*Climatology. iii, 15, O.-Ja.

C. PALACHE.

*Crystallography. Lab. and lects., iii, 15, O.-Ja.

J. E. WOLFF AND C. PALACHE.

*Phys. Crystallography, mainly Optical Mineral. and its Applica. iii, and lab., 15, F.-My.

J. E. WOLFF.

*Petrography. ii-iii, and lab., 30. (With an Asst.)

VANDERBILT.

2 Graduate Students, 1895-6.

JAMES M. SAFFORD [see 16].

Economic Geol. iii, 32.
Ore Deposits. iii, 32.
Special field work. —?

WESTERN RESERVE.

0 Graduate Students, 1895-6.

H. P. CUSHING, Prof. of Geol.

M.S., Cornell, '83; Instr. in Geology and Chemistry, W. R. U., '92; Prof., same, '93. — Petrography.

Descriptive Mineral. and Crystallog. iii, 17, F.-Jun.

*Determinative Mineral. iii, 16, S.-F.
Petrography. —?
Stratigraphical and Dynamical Geol. —?

WISCONSIN.

3 Graduate Students, 1895-6.

CHARLES R. VANHISE, Prof. of Geol.

B.Met.E., Wis., '79, and S.M., '82; Instr. in Metallurgy, same, '79-'83; Asst. Prof., '82-4; Prof., '84-8; Prof. Archæan and Applied Geol., '88-'92; Ph.D., '92; Geologist U. S. Survey of Pre-Cambrian Rocks. — Archæan and Algonkian, Princes of N. Am. Pre-Cambrian Geol., iron-bearing Districts Mich. and Wis.

[Phys. and Pre-Cambrian Geol. ii, 30.]

Princs. of Metamorphism, and Metamorphic Rocks. ii, 30.

Detailed Mapping of Pre-Cambrian Districts in Wis. ii-iii, 30.

J. MORGAN CLEMENTS, Asst. Prof. of Geol.

Ph.D., Leipzig, '90; Asst. U. S. Geol. Survey.

*Palæontology. v, 18.

WILLIAM H. HOBBS, Asst. Prof. of Mineral. and Petrol.

Ph.D., Johns Hopkins, '88; Asst. Geol., U. S. Geol. Survey. — Mineralogy, petrology, geology of crystalline rocks.

Petrology. v, 36.

Adv. Mineralogy. iii-v, 36.

Petrology of Pre-Cambrian Districts in Wis. ii-iii, 36.

YALE.

6 Graduate Students, 1895-6.

G. J. BRUSH, Prof. of Mineral. and Dir. Sheffield Sci. School.

Ph.B., Yale, '52, and A.M., '57; LL.D., Harvard, '86. — Minerals.

S. L. PENFIELD, Prof. of Mineral.

Ph.B., Yale, '77. — Analyses and Determination of Minerals.

L. V. FIRSSON, Asst. Prof. of Inorg. Geol.

Ph.B., Yale, '82. — Minerals.

Yale — Continued.

G. J. BRUSH, S. L. PENFIELD, AND L. V. PIRSSON.

Mineralogy. Lects. ii, and lab. daily, 32.

Lithology. Lab., daily.

*Struct. and Dynam. Geol. (el). iii, 32.

E. S. DANA, Prof. of Physics.

A.B., Yale, '70, A.M., '74, and Ph.D., '76.
— Ed. *Am. Jour. Science*, Mineralogy, Geology, and arts. on mineralogy and crystallography.

Mineralogy and Crystallography. i, 32.

H. S. WILLIAMS, Prof. of Geol.

Ph.B., Yale, '68, and Ph.D., '71; Prof. Geol. and Palæontol., Cornell; U. S. Geol. Survey. — Palæontol., stratigraphy, gen. princs. palæontol. and histor. geol., etc., Assoc. Ed. *Am. Jour. Science*.

Geological Biology. —?

Philos. of Life and Organism. i, 32.

W. H. BREWER, Prof. of Agricult.

Ph.B., Yale, '52; Ph.D., Washington and Jeff., '80; Prof. Nat. Sci., Wash. Col. — Agricult. topics, esp. breeding, botany, geol. California, sanitation, gen. biol.

*Physical Geog. iii, 16, O.—F.

ADDENDA.

[The following notes contain information received too late to be inserted in regular order in the Handbook. Most of it was supplied in answer to a final circular letter of May 20th. — EDITOR.]

BARNARD.

- Page 20. 6 Graduate Students.
Page 30. 3 Graduate Students.
Page 38. 3 Graduate Students.
Page 63. 4 Graduate Students.
Page 87. 2 Graduate Students.

BRYN MAWR.

Page 1. George A. Barton becomes Assoc. Prof. of Biblical Lit. and Semitic Langs.

Page 21. A. L. Hodder becomes Assoc. in Eng. Lit.

Page 21. Brackets should be transferred from 17th Cent. Prose Writers to 18th Cent. Prose Writers.

Page 31. Insert:

M. F. BLAU, Assoc. in Ger. Lit.
Ph.D., Leipzig, '88.

*Modern Ger. Drama. i or ii, 30.

*Middle High German (el). i or ii, 30.

Page 31. Omit Middle High German.
Insert:

The Teaching of German, with spec. ref. to el. work. i, 30.

Reading and discussion of selected portions of works of the principal German educators. i, 30.

CALIFORNIA.

Page 8. For Wm. M. Merrill, read Wm. A. Merrill.

CHICAGO.

Page 3. J. H. Breasted becomes Instr. in Egyptian Lang. and Lit.

Page 10. Paul Shorey becomes Head Prof. of Greek.

Page 10. Edward Capps becomes Assoc. Prof. of Greek.

Page 22. F. A. Blackburn becomes Assoc. Prof. of Eng. Lit.

Page 22. R. M. Lovett becomes Asst. Prof. of Rhetoric.

Page 79. Charles Zeublin becomes Univ. Extens. Assoc. Prof. of Sociology.

Page 88. Wardner Williams becomes Instructor in Music.

Page 92. E. H. Moore becomes Head Prof. of Math.

Page 92. H. Maschke becomes Assoc. Prof. of Math.

Page 112. J. U. Nef becomes Head Prof. of Chem.

The method of enrollment at Chicago did not admit of accurate statements of the numbers of Graduate Students taking courses in each department as arranged in the Handbook. To furnish some indication of the distribution of Graduate Students, the Editor sends the following statement for the Winter Quarter of 1896:

Semitics, 16; Greek, 17; Latin, 32; English, 39; Germanics, 10; Romance, 12; Comparative Philology, 6; Philosophy and Pedagogy, 44; Comparative Religion, 3; History, 44; Political Science, 31; Political Economy, 18; Sociology, 31; Archæology, 2; Mathematics, 29; Astronomy, 8; Physics, 6; Chemistry, 15; Zoölogy, 29; Physiology, 14; Neurology, 2; Botany, 10; Palæontology, 2; Geology, 5.

COLUMBIA.

Page 81. Under Franz Boaz insert:

Ph.D., Kiehl, '81.

Page 123. Under H. F. Osborn insert:

A.B., Princeton, '77, and Sc.D., '81. — Curator Invert. Palæontol., Am. Museum of Nat. Hist.

HARVARD.

Page 4. Insert:

JAMES H. ROPES, Instr. in N. Test. Criticism and Interpretation.

A.B., Harv., '89; Grad. Andover Theol. Sem., '93.

R) Study of Acts of the Apostles. ii, 30.

Page 24. Assistants are to be appointed for C. T. Copeland's Eng. Lit., 1744-98, and for L. E. Gates's Eng. Lit., 1832-92.

Page 25. Assistants are to be appointed for J. H. Gardiner's Eng. Lit., 1557-99; for G. P. Baker's Eng. Lit., 1599-1642; and for B. S. Hurlbut's Eng. Lit., 1700-44.

Page 25. J. B. Fletcher's Eng. Lit. of 15th and 16th Cents. is open to Radcliffe Graduate Students.

Page 33. In H. C. G. von Jagemann's Seminary, for The Niebelungenlied, read: The Lyric Poetry.

JOHNS HOPKINS.

Page 102. After Computation of Orbits and Ephem. iii, 15, insert: O.-Ja.

Page 102. After Special Perturbations. iii, 15, insert: F.-My.

MICHIGAN.

Page 53. Insert:

ROBERT M. WENLEY, Prof. of Philos.

A.M. (First Class, Philos.), Glasgow, '84; Sc.D. (Mental Science), Edinburgh, '91; Ph.D., Glasgow, '95; Univ. Medallist in Philos., Glasgow, '84; Fellow, same, '84-8, and Asst. Prof. Logic, '85-8 and '91-3; Lect. Philos. Dept., and Dean of Arts Faculty, Queen Margaret Col., '88-93; Examiner for Degrees in Philos. and Eng. Lit., Glasgow, '89-91; Lect. on Logic and Metaphysics, Glasgow, '93-4; Lect. on Eng. Lit., Glasgow Athenæum, '91-6; Sec. Glasgow Univ. Extens. Bd., '90-6; Lect. on Philos., Univ. Hall, Edinburgh, '95. — Socrates and Christ, Aspects of Pessimism, etc.

NORTHWESTERN.

Page 16. Insert under D. Bonbright: Seminary. i, 36.

Page 16. Hrs. and wks. for D. Bonbright's Tacitus should be iii, 24; for his Cicero, iii, 14; for his Lucretius, iii, 11; for his Virgil, iii, 11.

Page 27. Brackets should be removed from the two courses, Poetry of Tennyson and Browning, and Devel. of Eng. Drama. And the course on Eng. Poetry from Pope to Wordsworth should be in brackets.

Page 48. Insert:

1 Graduate Student, 1895-6.

Page 61. Omit the Seminary course, and change the weeks of other courses to 36.

Page 109. Insert:

1 Fellowship \$400.

Northwestern — Continued.

Page 109. The course in Math. Theory of Electr. and Magnetism should be in brackets.

RADCLIFFE.

Page 17. Omit C. P. Parker's name and insert his course under F. D. Allen.

Page 28. Omit J. B. Fletcher's name and course.

Page 28. Insert under L. E. Gates:
*Eng. Lit., from 1798 to Death of Scott.
i, 30.

VANDERBILT.

Page 28. For Tupitza, read: Zupitza.

Page 36. Omit A. R. Hohlfeld's course in Schiller.

Page 49. For Veda, Chamdagya read: Veda, Chāndogya.

Page 75. After Const. Hist. U. S., insert: iii, 32.

Page 75. After Magazine Club, insert: Biweekly.

Page 85. After Recent Lit. on Taxation, insert: i, 32.

Page 85. After Magazine Club, insert: Biweekly.

WELLESLEY.

Page 29. Omit the name and course of C. L. Young. Insert:

JOHN G. HART, Instr. in Eng.
A.B., Harvard.

* Eng. Composi. (adv). ii, 35.

WISCONSIN.

Page 86. William A. Scott becomes Prof. of Econ. Hist. and Theory.

Page 87. After Statistics, read: iii, 18, S.-F.; repeated F.-Jun.

Page 119. R. H. True becomes Asst. Prof. of Pharmacognosy.

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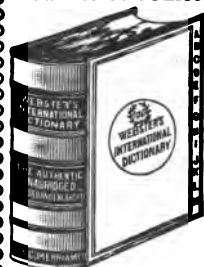
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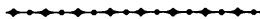
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